PFAS Ongoing Monitoring Report (2023)

RAAF East Sale

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Prepared for
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Cardno

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Executive Summary

Introduction

Cardno (now Stantec) were engaged by the Department of Defence ("Defence") to carry out the Per- and Poly-Fluoroalkyl Substances (PFAS) Ongoing Monitoring Plan (OMP) (Senversa, 2023a) at Royal Australian Air Force (RAAF) Base East Sale ("the Site").

The OMP outlines the rationale and scope for the monitoring of the concentrations and extent of PFAS in groundwater, surface water and sediment originating from the Site. The monitoring program consists of annual monitoring events.

The OMP includes sampling and analysis of the Monitoring Area (MA), comprised of both Onsite and Offsite areas (as shown in Figure 1A, Appendix A). The Onsite Monitoring Area (which is also the Management Area) comprises RAAF Base East Sale. The Offsite Monitoring Area(s) are formed by The Heart Morass wetlands located south of the Site and privately owned properties to the east and south of the Site.

Objectives

Ongoing monitoring has been performed in order to assess the performance of the current management systems and monitoring changes in PFAS contaminant distribution. The objectives of the ongoing monitoring program as set out in the OMP (Senversa, 2023a) are to:

- To continue to assess changes in risk from PFAS within the environment, focusing on where there is an identified potential risk requiring management under the PFAS Management Area Plan (PMAP).
- Assess the seasonal effects of PFAS concentrations in surface water and groundwater, including during or immediately following extreme or high rainfall events.

Monitoring Scope

The 2023 monitoring period comprised of one monitoring event, undertaken on an annual basis in November 2023.

The scope of work for the annual monitoring event comprised monitoring of 68 groundwater wells, 52 surface water monitoring locations and 44 sediment monitoring locations that are co-located with surface water monitoring locations, as specified in the OMP. Groundwater monitoring is undertaken across three groundwater aquifers: the Upper Alluvium Aquifer (Shallow), the Lower Alluvium Aquifer (Intermediate), and the Haunted Hills Formation Aquifer (Deep).

Groundwater elevation data was collected from 62 of the 68 groundwater wells during the monitoring events. Three monitoring locations that are used for groundwater extraction (Point of Use) cannot be gauged, and three locations were inaccessible.

Works were conducted in general accordance with the Sampling and Analysis Quality Plan (SAQP) (Cardno, 2023) except as summarised in Section 3.2 of this report.

Groundwater Results

Groundwater Flow Direction

Groundwater flow direction is consistent between the November 2023 monitoring event and previous monitoring events (2019 to 2022), indicating a south-easterly flow direction from the north-west of Site, towards The Heart Morass and Latrobe River. It is important to understand groundwater flow direction as it is used to monitor the movement of contamination.

What is an 'order of magnitude'?

This refers to something decreasing or increasing by multiples of ten. For instance, an increase from 10 to 100 is an order of magnitude increase. When assessing changes in PFAS concentrations at an individual location, all concentrations are considered when determining trends, but order of magnitude changes are discussed separately as they represent a significant change in concentrations from what was reported in the previous event.

If a change is close to established health or environmental criteria, it will also be considered significant.

PFAS Concentrations

In 2023, PFAS concentrations in groundwater within the Upper Alluvium aquifer were generally reported within historical range and most locations reported stable or no clear concentration trends over time. Some locations within known source areas reported increasing concentrations trends, suggesting continued leaching of PFAS impacts into shallow groundwater. Within the Lower Alluvium and Haunted Hills aquifers, new maximums and increasing trends appear to be more prevalent, indicating continued vertical migration of PFAS. This is observed in particular around the Mechanical Equipment Operations and Maintenance Section (MEOMS) area (Source ID 05), the Former Aqueous Film Forming Foam (AFFF) Testing Area (Source ID 11), the Waste Burial Area (Source ID 07), and near the south-east corner of the Site (by the confluence of the Western Drain and Eastern Main Drain). Groundwater PFAS concentrations in November 2023 were within the same order of magnitude as that of the previous monitoring event.

Continued Offsite migration of PFAS impacts within the Lower Alluvium and Haunted Hills aquifers is observed immediately downgradient of the Waste Burial Areas (Source ID 07) and near the south-east corner of the Site. It is acknowledged that human-exposure pathways immediately downgradient of these areas remain incomplete (no groundwater extraction), as they have been previously, and thus there is no change in the risk profile. November 2023 PFAS concentrations at Point of Use wells that are known to be actively extracted from are either below the limit of reporting (LOR) and/or below Drinking Water Criteria. However, PFAS continues to be present in groundwater immediately Off-site at concentrations exceeding Drinking Water Criteria and ecological criteria . As groundwater is inferred to discharge to The Heart Morass, these impacts are also likely to contribute to the potentially elevated direct toxicity risk posed to ecological receptors within The Heart Morass.

Surface Water Results

Surface Water / Groundwater Interaction

Groundwater discharge to surface water within the Western Catchment is minimal and limited to around the Retention Basin following spring rainfall events, however, this may be reversed by nearby Offsite groundwater extraction activities to the south from a private bore. There is some surface water – groundwater interactions within the Eastern Catchment, with groundwater inferred to discharge to surface water in certain portions of the Main Airfield Drain and the Eastern Main Drain, however, the amount of discharge varies with water level and rain fall.

PFAS Concentrations

The majority of surface water concentrations Onsite in November 2023 were consistent with historical results and no clear concentration trends over time are apparent. Variability of PFAS results over time within Onsite drainage network locations remain high. Based on the Interpretive PFAS Mass Assessment (Senversa, 2023b), concentrations are known to vary considerably in response to rainfall events. 2023 OMP results indicate ongoing discharge of PFAS from the Site to The Heart Morass via surface water.

Offsite within The Heart Morass, surface water PFAS concentrations in November 2023 appear to be relatively low compared to historical concentrations. Apparent decreasing trends over time are observed at SW001 and SW011. No clear trends are apparent at the other locations. The November 2023 (E13) sampling event took place shortly after a flooding event when the flood waters had just receded. It is likely that this has contributed to the relatively low concentrations observed during this sampling event. Potentially elevated direct toxicity risks to ecological receptors remain, in particular near the point where the Eastern Main Drain discharges to The Heart Morass. PFAS concentrations at The Heart Morass outflow towards Lake Wellington

What is a 'limit of reporting'?

The limit of reporting (LOR) is the lowest concentration level that the laboratory is able to measure in a sample with a reasonable degree of certainty. Where monitoring shows <LOR, it means that if PFAS is present in the sample it is too low for the laboratory to measure with any degree of certainty.

remain below the Drinking Water Criteria but above the Ecological Criteria (99% species protection).

Sediment

The majority of November 2023 PFAS concentrations reported for sediment monitoring locations Onsite were consistent with historical results. Offsite within The Heart Morass, the majority of sediment results appear to be congruous with surface water results, with most PFAS concentrations appearing to be on the lower end of the historical range. The highest PFOS+PFHxS concentrations in The Heart Morass was reported near the point where the Eastern Main Drain discharges into The Heart Morass, whilst the lowest PFOS+PFHxS concentrations were reported in the south-western (upstream) portion of The Heart Morass and at the most downstream portion of The Heart Morass near the discharge point to Lake Wellington.

Risk Summary and Conclusions

The CSM was refined based on the findings of the Interpretive PFAS Mass Assessment (Senversa, 2023b). No new sources, exposure pathways or receptors were identified in 2023, however, migration pathways are now better understood. Based on the findings of this OMR, groundwater mass flux via the Haunted Hills aquifer is likely a data gap.

The 2023 OMP results do not indicate any change to the existing risk profile. PFAS concentrations at Point of Use wells that are known to be actively extracted from are either below LOR and/or below Drinking Water Criteria. However, PFAS continues to migrate beyond the Site boundary in the south-eastern portion of the Site and is present in groundwater immediately Off-site at concentrations exceeding Drinking Water Criteria and ecological criteria, thereby posing a potential future risk to groundwater users further down-gradient.

The revised OMP (Senversa, 2023a) was in effect for the latest monitoring event in November 2023 (event 13 - E13). The revised OMP proposed annual monitoring of all groundwater, surface water and sediment locations instead of quarterly or biannually. Based on the findings of this OMR, a review of the OMP (Senversa, 2023a) is considered to be warranted. It is understood that the revised OMP is undergoing review in 2024.

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Table of Abbreviations and Units

Chemical Names

6:2 FtS	6:2 Fluorotelomer Sulfonate
DOC	Dissolved Organic Carbon
DO	Dissolved Oxygen
PFAS	Per- and Poly-fluoroalkyl Substances
PFHxS	Perfluorohexane sulfonate
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonate
TDS	Total Dissolved Solids (salinity of water)
TSS	Total Suspended Solids

Technical Terms

AFFF	Aqueous Film-Forming Foam
AHD	Australian Height Datum
ANZECC	Australian and New Zealand Environment and Conservation Council
AS	Australian Standard
ASS	Acid sulfate soils
ASC NEPM	National Environmental Protection Measure (Assessment of Site Contamination)
AST	Above-ground Storage Tank
BGL	Below Ground Level
CA	Commonwealth Land
COC	Chain of Custody
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CSM	Conceptual Site Model
DO	Dissolved oxygen
DSI	Detailed Site Investigation
DQI	Data Quality Indicator
DQO	Data Quality Objective
EC	Electrical Conductivity
EPA	Environment Protection Authority
ESA	Environmental Site Assessment
FZ	Farming Zone
HEPA	Heads of Environmental Protection Authority's Australia and New Zealand
HHERA	Human Health and Ecological Risk Assessment
HIL	Health Investigation Level
HSL	Health Screening Level
LC	Lead Consultant
LOR	Limit of Reporting
MA	Monitoring Area

MEOMS	Mechanical Equipment Operations and Maintenance Section
N/A	Not Applicable
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NHMRC	National Health and Medical Research Council
OMR	Ongoing Monitoring Report
ORP	Oxidation-reduction potential
POT	Point of use
QA	Quality Assurance
QC	Quality Control
RAAF	Royal Australian Air Force
RPD	Relative Percentage Difference
SAQP	Sampling and Analysis Quality Plan
SEPP	State Environment Protection Policy
S-P-R	Source-Pathway-Receptor
TDS	Total dissolved solids
TOC	Top of casing
VVG	Visualising Victorian Groundwater

Units

°C	Degrees Celsius
ha	Hectares
km	Kilometres
m	Metres
mBGL	Metres Below Ground Level
mbTOC	Metres Below Top of Casing
mg/kg	Milligrams per Kilogram (approximately equivalent to ppm)
mg/L	Milligrams per Litre
mm	Millimetre
mV	Millivolt
ppm	Parts per Million
µg/L	Micrograms per Litre
µS/cm	Micro Siemens per Centimetre (Electrical Conductivity – Water)

Site Specific

Esdat	Environmental Data Management Software
FTG	Fire Training Ground
OMP	Ongoing Monitoring Plan
PMAP	PFAS Management Area Plan
Ramsar	The Ramsar Convention on Wetlands of International Importance

1 Introduction

Cardno (now Stantec) were engaged by the Australian Department of Defence ("Defence") to carry out the Per- and Poly-Fluoroalkyl Substances (PFAS) Ongoing Monitoring Plan (OMP) at Royal Australian Air Force (RAAF) Base East Sale ("the Site"). The location of the Site is displayed in Figure 1A of Appendix A.

The OMP (Senversa, 2023a) was carried out in general accordance with the scope and limitations presented in Cardno's Sampling and Analysis Quality Plan (SAQP), presented in Appendix E:

> Cardno, Reference: DEF19008, '*PFAS OMP Sampling and Analysis Quality Plan (SAQP) RAAF Base East Sale*', Rev 15, December 2023.

Before the OMP, a Detailed Site Investigation (DSI) was undertaken in 2016 by Senversa Pty Ltd (Senversa) to assess PFAS on and near the Site (Senversa, 2017). The DSI works were commissioned as part of Defence's review of several sites around Australia that used legacy aqueous film-forming foam (AFFF) for fire-fighting and fire-fighting training exercises. Senversa were appointed by Defence as the consultant to undertake the DSI, and are now appointed by Defence as the Lead Consultant (LC) for delivery of the recommended actions outlined in the PFAS Management Area Plan (PMAP) (Senversa, 2018b).

The OMP applies to RAAF Base East Sale and surrounding areas, and is comprised of the following areas: (see Figure 1A, Appendix A):

> The "Site Boundary / Onsite Monitoring Area and Management Area" are both defined as RAAF Base East Sale (the Site);

> the "Offsite Monitoring Area" is defined as seven privately owned properties to the east and south-east of the Site and The Heart Morass wetland;

> "The Heart Morass Monitoring Area" forms part of the Offsite Monitoring Area and incorporates public land to the south and south-east of the Site.

For the purpose of this report, the above areas are collectively referred to as the "Monitoring Area".

1.1 Purpose and Objective

Ongoing monitoring will be performed in order to assess the performance of the current management systems and monitoring changes in PFAS contaminant distribution. The objectives of the ongoing monitoring program are to:

> Evaluate the nature and extent (spatial and temporal) of PFAS impacts in surface water, groundwater, and sediment pathways associated with Site sources of PFAS derived from historical use of Aqueous Film-Forming Foam (AFFF).

> Monitor the potential migration of PFAS in groundwater, surface water and sediment from the Site.

The purpose of this PFAS Ongoing Monitoring Report (2023) (OMR) is to present and evaluate data on changes in the distribution, concentration and transport (pathways and flow rates) of the contaminants and assessment against appropriate guideline values, to achieve the above objectives and also provide:

> An evidence base for targeted and effective risk management of PFAS contamination to protect human and environmental receptors.

> An early warning that additional management of PFAS contamination may be warranted in areas not previously known to contain PFAS.

1.2 Scope

Cardno carried out the following tasks to satisfy the purpose and objectives of this assessment:

> Reviewed monitoring data from the E13 OMP sampling event in November 2023, and available data since 2016.

> Undertook qualitative analysis of PFAS concentration trends; and

> Prepared this report to provide findings relevant to the objectives of the assessment.

Note that the OMR does not:

> Provide recommendations for changes to state or territory precautionary advice;

- Recommend changes or amendments to remediation measures or activities;
- Provide health advice, such as recommendations to limit PFAS exposure through food consumption.

1.3 Relevant Guidelines

This assessment has been undertaken in general accordance with applicable industry standards for a site investigation for the purpose, objectives and scope identified in this report. These standards are set out in:

- Australian and New Zealand Guidelines (2018), *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*.
- National Environment Protection Council (NEPC; 1999), *National Environment Protection* (*Assessment of Site Contamination*) *Measure*, (as amended), registered May 2013.
- Department of Defence, Department of Energy (2018), *Quality System Manual Schedule B15 USEPA DQO Process.*
- Heads of Environmental Protection Authority's Australia and New Zealand (HEPA; 2020), *National Environmental Management Plan (NEMP),* Version 2.0, January 2020.
- National Health and Medical Research Council (NHMRC; 2019), *Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water,* August 2019.
- Standards Australia/Standards New Zealand (1998) AS5667.1:1998 '*Water Quality – Sampling, Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples'.*
- U.S. Environmental Protection Agency (USEPA; 2006), *Guidance for the Data Quality Objectives Process (EPA QA/G-4).*
- USEPA (2002), *Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8)*, November 2002.

2 Site Setting

RAAF Base East Sale is located approximately 220 km south-east of Melbourne in the Gippsland region of Victoria and covers an area of 800 hectares (ha). RAAF Base East Sale is an active RAAF Base, airport and training facility.

The Site is situated approximately 5 km east of the centre of Sale. The majority of the buildings and associated infrastructure and support services are located in the south-west portion of the Site and include:

- Childcare facility and various accommodation blocks.
- Two main runways, located on the eastern part of the Site.
- Aerodrome and aircraft support areas located in the centre of the Site.
- Recreation facilities located in the south-west section of the Site.

2.1 Environmental Setting

Key details defining the environmental setting of the Site are summarised in Table 2-1. As part of the implementation of the PMAP recommendations, additional assessments by way of a PFAS mass flux study was completed (Senversa, 2023b). This will further the understanding of the hydrology, potential connectivity with groundwater, and extent of contamination at key source areas. The Site locality and layout, Monitoring Area extent and features, and key PFAS source areas, are presented in Figure 1A and 1B, Appendix A.

Table 2-1 Key Site Details

Setting	Description
Climate	The area is described as having a Mediterranean climate, consisting of higher temperatures and lower rainfalls in summer. However, due to its coastal proximity the climatic depressions create a milder climate and more evenly distributed rainfall. The highest volume of rainfall typically occurs during the month of November with a monthly rainfall amount of 81.4 mm in 2023, which is above the average monthly rainfall of 63.3 mm. February is the hottest month with the mean temperature of 26.5°C in 2023. By contrast, winters are cool with June mean temperatures of 14.9°C in 2023[1].
Topography	The Site slopes gently in a general easterly direction towards Lake Wellington with elevation ranging from approximately 8 m relative to the Australian Height Datum (mAHD) at the western boundary, to 3.5 mAHD at the eastern Site boundary.
Geology	**Regional Geology:** The Site is underlain by Quaternary alluvium terrace deposits comprising predominantly brown, interbedded silts, sands and clays[2]. **Site-specific Geology:** Previous environmental investigations have generally encountered alternate layers of silty clay overlying sandy clay with some areas containing silt. Beyond 10 m below ground level (mBGL), a sequence of thickly interbedded lithologies was identified as being the Haunted Hill Formation. Previous investigations have drilled to a maximum depth of approximately 36 mBGL (Senversa, 2018b).
Acid Sulfate Soil	A review of the Acid Sulfate Soils (ASS) risk mapping, available on the Commonwealth Scientific and Industrial Research Organisation (CSIRO) database[3] indicates that the most southerly section of the Site is classified as having a high probability of ASS occurrence and the rest of the Site having a low probability of occurrence.
Hydrology	The Site is located within the West Gippsland Catchment Area. Several rivers including the Flooding River and Latrobe River converge in this low-lying area, which results in wetlands and inundation zones. These drain into Lake Wellington before ultimately draining into the Southern Ocean. The Site comprises three principal drainage catchments (i.e. Management Area Drainage): ▪ **Eastern Drain:** Originating in the northern section of the Site, it deepens to 4-5 m as it progresses to its discharge point, which is in the south-eastern section of the Site towards The Heart Morass. The PMAP noted that the drain aligns with a natural former unnamed creek, which is evident on historical geological maps (reference was not provided). There is some surface water – groundwater interactions within the Eastern Catchment, with groundwater inferred to discharge to surface water in certain portions of the Main Airfield Drain and the Eastern Main Drain, however, this is variable.

Setting	Description
	▪ **Western Drain:** Originating in the north-west of the Site, it is 1-2 m deep and concrete lined until the golf course. At this point it is an unlined channel to the southern boundary where water accumulates in a stormwater retention pond. This pond is part of new upgrade works which diverts surface water east in a concrete lined culvert to converge with the Eastern Drain. Groundwater discharge to surface water within the Western Catchment is minimal and limited to around the Retention Basin following spring rainfall events, however, this may be reversed by nearby Offsite groundwater extraction activities. ▪ **Central Drain:** Located in the southern section of the airfield, it drains central areas towards the stormwater retention pond and the associated Western Drain. It is an unlined open channel ranging in depth from 0.5-2 m deep. The area north of the airfield is not dominated by a major drainage channel but is rather a network of smaller drainages, discharging Offsite along Cobains Road and ultimately draining into Lake Wellington.
Hydrogeology	The hydrogeological units encountered at the Site during previous investigations and DSI works include the following, separated by aquitards with low porosity and a high clay content: – **Upper Alluvium Aquifer (Shallow):** 0-6 mBGL, interbedded silt, sand and clay, with occasional gravels. Groundwater approximately 0.87 to 6.8 m below top of casing (mbTOC) in 2021 and 0.150 to 4.867 mbTOC in 2022. Groundwater in the Upper Alluvium is slow moving, with the calculated seepage velocity being 0.1 – 0.4 m/year. – **Lower Alluvium Aquifer (Intermediate):** 5-12 mBGL, the Lower Alluvium aquifer was separated from the Upper Alluvial by a 1-2 m thick clay or silty clay unit. The Lower Alluvial aquifer consisted of mainly sand with varying components of silt and clay. Groundwater approximately 1.2 to 6.2 mbTOC in 2021 and 1.673 to 5.105 mbTOC in 2022. The calculated seepage velocity of groundwater in the Lower Alluvium is approx. one order of magnitude higher than the Upper Alluvium: 1.5 – 2.2 m/year. – **Haunted Hills Formation Aquifer (Deep):** 10-36 mBGL, the Haunted Hills Formation aquifer was separated from the alluvium by a 2-5 m thick silty clay and clay layer aquitard, followed by bands of silty/clayey sands and characteristic alluvium sandy gravels. Groundwater approximately 2.2 to 5.7 mbTOC in 2021 and 0.438 to 3.921 mbTOC in 2022. The Haunted Hills formation is the fastest moving of the three aquifers, with calculated seepage velocity almost one order of magnitude higher than the Lower Alluvium: 12.2 – 18.9 m/year. – **Nuntin Clay (Boisdale Formation):** >36 mBGL, this unit, the upper aquitard unit of the Boisdale Formation, consisted of silty clay with trace fine grained sand. Groundwater approximately 3.4 to 4.3 mbTOC in 2021 and 0.624 to 1.967 mbTOC in 2022. ▪ **Depth to Groundwater** – Groundwater occurring from within the Alluvium deposits has previously been recorded beneath the Site at levels of between near surface and 10 mBGL and groundwater occurring from the Haunted Hills Formation was recorded at levels between 5 m and 30 mBGL (Senversa, 2016). Depth to groundwater of the Wurruck Sand Aquifer has been recorded at levels ranging from 100-300 mBGL. ▪ **Groundwater Flow Direction** – The flow of groundwater through the Site was towards the south-east, consistent with the local topography and likely affected by paleochannels and other geomorphology. ▪ **Surface Water and Groundwater Connection** – Groundwater, when under natural conditions, is expected to discharge into parts of the Main Airfield Drain and the Eastern Main Drain where it is likely discharged as base flow. Groundwater discharge into the Western Drain and Central Drain are likely to be minimal, where surface water is in a predominantly losing relationship with groundwater. ▪ **Receiving Surface Water Body** – Overall, groundwater is expected to flow south-east towards The Heart Morass. Groundwater flow contours are shown on Figures 6A to 6C, Appendix A. ▪ **Groundwater Use** – Regional groundwater is known to be used for domestic and agricultural purposes (primarily for irrigation of dairy pasture and stock watering). Both the township of Sale and the Site itself are supplied water from production bores from within the Boisdale Formation. A review of VVG (Visualising Victorian Groundwater) indicated 65 Offsite registered groundwater bores within a 1 km radius of the Site. Bores were registered for the following purposes: • Dairy: 2 bores • Dewatering, non-groundwater: 2 bores • Domestic: 2 bores • Domestic and stock: 1 bore • Irrigation: 12 bores

Setting	Description
	• Stock: 6 bores • Observation: 14 bores • Investigation: 6 bores • Unknown: 20 bores
Environmental Sensitive Areas	The environmentally sensitive areas within the Management Area comprise: ▪ The Heart Morass wetlands, a permanent freshwater marsh located 500 m to the south of the Site. ▪ The Dowd Morass Wetland (Ramsar wetland), a deep saline wetland located 4 km to the south-east of the Site and directly south of Latrobe River. ▪ The Sale Common Wetland (Ramsar wetland), located 4 km to the south-west of the Site. Ecological receptors in the area include (but are not limited to) (Senversa, 2017): ▪ Mammals (rabbits, kangaroos, possums, bats, wallabies, etc.) ▪ Birds (including Barn Owls, Tawny Frogmouths, Southern Boobook Owl, sulphur crested cockatoos and waterbirds) ▪ Reptiles and insects ▪ Semi-aquatic and aquatic biota ▪ Grass, trees and other vegetation including significant Gippsland red gums and swamp scrub
Wetlands	The Heart Morass, Dowd Morass and Sale Common Wetlands are hydraulically downgradient of the Site.

1. Bureau of Meteorology, 085072, 1945 to 2024 (BoM, 2024) http://www.bom.gov.au.
2. Regional Geology, Visualising Victoria's Groundwater (VVG), last accessed 9 February 2024.
3. Australian Soil Resource Information System, http://www.asris.csiro.au/mapping/viewer.htm.

2.2 Management Area & Monitoring Area

The OMP includes sampling and analysis not only from the Site, but also from several surrounding Offsite waterways and privately owned and leased properties. The Site and these surrounding areas are collectively referred to as the "Monitoring Area" as defined in Section 1 and as defined in the PMAP (Senversa, 2018b). Both the "Onsite Monitoring Area" and the "Management Area" are defined as RAAF Base East Sale (the Site). The "Offsite Monitoring Area" is defined as seven privately owned properties to the east and south-east of the Site and The Heart Morass wetland. The "Heart Morass Monitoring Area" forms part of the Offsite Monitoring Area and incorporates public land to the south and south-east of the Site.

The Monitoring Area boundaries are presented on Figure 1A, Appendix A.

2.3 Groundwater Monitoring

Monitoring of selected groundwater wells was performed in general accordance with the SAQP, applying methods set out in Section 3 of this report. The groundwater wells included in the ongoing monitoring program are presented in Table 2-2, and are shown in Figure 2 and Figure 3, Appendix A.

Table 2-2 Groundwater Monitoring Locations

Aquifer	Location (Onsite / Offsite)	Formation
Upper Alluvium (Shallow)	Onsite	MW201, MW202, MW306, MW315, MW325, MW326, MW603, MW607, MW609, MW610, MW612, MW616, MW617, MW622, MW623, MW626, MW627, MW628, MW636, MW702, MW707, MW708, MW709, MW711, MW712, MW714, MW715, MW716, MW719, MW720, MW724, MW725, MW726, MW728, MW730, MW733, MW734, MW735, MW738
	Offsite	MW015, MW304, MW316
Lower Alluvium (Intermediate)	Onsite	MW323, MW324, MW701, MW704, MW739, MW740, MW741
	Offsite	MW008, MW010, MW016, MW310, MW318
Haunted Hills Formation (Deep)	Onsite	MW705, MW729, MW737
	Offsite	MW009, MW312, MW321

Aquifer	Location (Onsite / Offsite)	Formation
Boisdale (artesian)	Offsite	MW014
Point of Use (POT)	Offsite	MW302, MW319, POT027, POT034, POT042, POT050, POT051

2.4 Surface Water and Sediment Monitoring

Sampling of selected surface water and sediment locations was performed in general accordance with the SAQP, applying methods set out in Section 3 of this report. The surface water and sediment locations monitored as part of the ongoing monitoring program are presented in Table 2-3 and Table 2-4, and are shown in Figure 4 and Figure 5, Appendix A.

Table 2-3 Surface Water Monitoring Locations

Location	Formation
Onsite	SW201, SW203, SW206, SW208, SW209, SW216, SW217, SW222, SW223, SW226, SW227, SW230, SW231, SW233, SW238, SW239, SW242, SW246, SW251, SW252, SW256, SW257, SW258, SW351, SW353, SW366
Offsite	Northern Drainage Outlet: SW049 Eastern Main Drainage Outlet: SW001, SW002, SW033 The Heart Morass: SW004, SW011, SW014, SW015, SW016, SW019, SW030, SW031, SW032, SW034, SW035, SW041, SW052, SW082, SW088, SW089, SW092, SW277 Latrobe River: SW012, SW080, SW093 Flooding Creek: SW077

Table 2-4 Sediment Monitoring Locations

Location	Monitoring locations
Onsite	SD201, SD206, SD208, SD209, SD216, SD217, SD223, SD226, SD227, SD230, SD231, SD233, SD239, SD242, SD246, SD247, SD249, SD251, SD256, SD257, SD258, SD259, SD260
Offsite	Northern Drainage Outlet: SD049 Eastern Main Drainage Outlet: SD001, SD268, SD033 The Heart Morass: SD011, SD014, SD015, SD016, SD019, SD030, SD031, SD032, SD034, SD035, SD041, SD052, SD082, SD088, SD089, SD270, SD276

In addition to the gauging of all groundwater locations and select surface water locations, data loggers are deployed in groundwater monitoring wells and surface water monitoring wells to continue to monitor the interactions between groundwater and surface water, as presented in the Interpretive PFAS Mass Assessment (Senversa, 2023b).. Three monitoring locations contain groundwater data loggers paired with surface water data loggers: DL07 + DL14, DL09 + DL13, DL15 + APWS-SW251 + APWS-SW351. Data loggers were installed at the monitoring points listed in Table 2-5 and set to a logging frequency of once every 30 minutes.

Table 2-5 Data Logger Monitoring Network

Catchment	Data Logger ID	Monitoring Location
Onsite Eastern Drainage Network	DL02	SW345
	DL03	SW346
	DL04	SW238
	DL06	SW257
	DL07	SW329

	DL08	SW259
Onsite Western Drainage Network	DL09	Retention Basin in Western Drain
	DL10	SW246
	DL11	SW230
	DL13	MW714
Onsite Eastern Drainage Network	DL14	MW702
	DL15	MW701
Onsite Western Drainage Network	DL16	SW208
	DL17	SW343
	DL18	SW226
Onsite Eastern Drainage Network	DL19	SW239
	APWS-SW251	SW251
	APWS-SW351	SW351

2.5 Source Areas

Based on the findings of the DSI (Senversa, 2017), there were several source areas where PFAS impacts were found, which have also been identified in the PMAP (Senversa, 2018b). These are shown in Figure 1B, Appendix A, and include the following:

- North-west Area – fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03), former fire station (Source ID 04) and chemical storage area (Source ID 05) [Mechanical Equipment Operations and Maintenance Section (MEOMS)].
- Central/Eastern Area – current fire station (Source ID 06), former fire training area (Source ID 10), and grassed area near runway (Source ID 16).
- Southern Area – former fire training areas (Source ID 08 and 09) and waste burial areas (Source ID 07).
- Central Area – AFFF foam and equipment testing area (Source ID 11).
- South-west Area – Lake Edward Area (Source ID 25).

Further assessments being undertaken as part of PMAP implementation in the 2023 monitoring period investigated the potential for PFAS generation in surface water from nine priority source areas. Of these nine source areas, two key source areas were identified as contributing to most of the Offsite mass flux: the Fire Station (Source ID 06) and the Former AFFF Testing Area (Source ID 11) (Senversa, 2023b). This contribution predominantly occurred via surface water. Further details are presented in Section 6.

2.6 Surrounding Land Uses and Zoning

The Site (Figure 1A, Appendix A) is zoned Commonwealth Land (CA), as shown on the VicPlan website[1]. The surrounding land uses and the corresponding planning zones are outlined in Table 2-6, which includes 30 residential homes within a 1 km radius (Senversa, 2018b).

Table 2-6 Surrounding Land Uses

Direction	Land Use
North	Dairy farming, dog breeders, farrier, rural residential and an abattoir – Farming Zone (FZ)
West	Dairy farming, rural residential, cattle grazing with Sale township further west – FZ
East	Dairy farming and cattle (beef) grazing, Lake Wellington further east – FZ

Direction	Land Use
South	Dairy farming, and The Heart Morass wetlands further south – FZ

1. VicPlan https://mapshare.vic.gov.au/vicplan/, last accessed on 13th of February, 2024.

3 Sampling and Analytical Methodology

3.1 Groundwater, Surface Water and Sediment Sampling Methodology

The sampling and analysis methodology is outlined in the SAQP, presented in Appendix E.

The annual event conducted as part of the OMP was held during E13. The sampling locations monitored as part of the OMP are presented in Table 3-1, and are shown in Figures 2 to 5, Appendix A.

Table 3-1 Sampling Locations

Monitoring Frequency	Monitoring Area	Groundwater Location ID	Analysis
Annual	Onsite	MW201, MW202, MW306, MW315[1], MW323, MW324, MW325, MW326, MW603, MW607, MW609, MW610, MW612, MW616, MW617, MW622, MW623, MW626, MW627, MW628, MW636, MW701, MW702, MW704, MW705, MW707, MW708, MW709, MW711, MW712, MW714, MW715, MW716, MW719, MW720, MW724, MW725, MW726, MW728, MW729, MW730, MW733, MW734, MW735, MW737, MW738, MW739, MW740, MW741	PFAS
	Offsite	MW008, MW010, MW016, MW310, MW015, MW304, MW316, MW318, MW009, MW312, MW321, MW014, MW302, MW319, POT027, POT034, POT042, POT050, POT051	PFAS
Monitoring Frequency	**Monitoring Area**	**Surface Water Location ID**	**Analysis**
Annual	Onsite	SW201, SW203, SW206, SW208, SW209, SW216, SW217, SW222, SW223, SW226, SW227, SW230, SW231, SW233, SW238, SW239, SW242, SW246, SW251, SW252, SW256, SW257, SW258, SW351[1], SW353, SW366[1]	PFAS
	Offsite	Northern Drainage Outlet: SW049 Eastern Main Drainage Outlet: SW001, SW002, SW033 The Heart Morass: SW004, SW011, SW014, SW015, SW016, SW019, SW030, SW031, SW032, SW034, SW035, SW041, SW052, SW082, SW088, SW089, SW092, SW277 Latrobe River: SW012, SW080, SW093 Flooding Creek: SW077	PFAS
Monitoring Frequency	**Monitoring Area**	**Sediment Location ID**	**Analysis**
Annual	Onsite	SD201, SD206, SD208, SD209, SD216, SD217, SD223, SD226, SD227, SD230, SD231, SD233, SD239, SD242, SD246, SD247, SD249, SD251, SD256, SD257, SD258, SD259, SD260	PFAS
	Offsite	Northern Drainage Outlet: SD049 Eastern Main Drainage Outlet: SD001, SD268, SD033 The Heart Morass: SD011, SD014, SD015, SD016, SD019, SD030, SD031, SD032, SD034, SD035, SD041, SD052, SD082, SD088, SD089, SD270, SD276	PFAS

Notes:

1. MW315, SW351 and SW366 were added to the SAQP in 2023 under the revised OMP (Senversa, 2023a).

3.2 Deviations from the OMP SAQP

Deviations from the SAQP are summarised in Table 3-2.

Table 3-2 Deviations from the OMP SAQP

Location	Sampling Event	Deviation	Comments	Impact on Existing Dataset & Program
Groundwater				
MW610	Nov 2023	Not Sampled	Unable to open well cap	Moderate impact – Location located within a source area; Mechanical Equipment Operations and Maintenance Section (MEOMS) (Source ID 05). Concentrations have consistently reported above criteria. Location last sampled in the August 2022 sampling event, where sampling frequency has changed from quarterly to annual since the November 2022 event. This location has been recommended for repair prior to the next sampling event commencing.
Surface Water				
SW030	Nov 2023	Not Sampled	Dangerous access conditions – Field staff were obstructed by aggressive livestock	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Downstream locations have been sampled in this event.
SW201	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Downstream location has been sampled in this event.
SW206	Nov 2023	Not Sampled	Access blocked by placement of large skip bin	Minor impact – Location last sampled in the November 2021 sampling event. Downstream locations have been sampled in this event.
SW208	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Further downstream locations have been sampled in this event.
SW216	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Location is Onsite and further downstream locations have been sampled in this event.
SW217	Nov 2023	Not Sampled	Location dry	Minor impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. There are no downstream locations available to sample.
SW222	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Downstream locations have been sampled in this event.
SW226	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Further downstream locations have been sampled in this event.

Location	Sampling Event	Deviation	Comments	Impact on Existing Dataset & Program
SW242	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Location is Onsite and further downstream locations have been sampled in this event.
SW353	Nov 2023	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Location is Onsite and further downstream locations have been sampled in this event.
SW366	Nov 2023	Not Sampled	Location dry	Potential data gap – The November 2023 sampling event is the first inclusion of SW366 as a sampling point.
Sediment				
SD030	Nov 2023	Not Sampled	Dangerous access conditions – Field staff were obstructed by aggressive livestock	Minimal impact – Location last sampled in the November 2022 sampling event. Downstream locations have been sampled in this event.
SD206	Nov 2023	Not Sampled	Unable to access gatic, covered by skip bin	Minor impact – Location last sampled in the July 2021 sampling event. Downstream locations have been sampled in this event.
SD208	Nov 2023	Not Sampled	Insufficient material for sampling	Minimal impact – Location last sampled in the November 2022 sampling event. Further downstream locations have been sampled in this event.
SD216	Nov 2023	Not Sampled	Insufficient material for sampling	Minor impact – Location last sampled in the January 2021 sampling event.

3.3 Changes to the Monitoring Network

There were some changes to the OMP monitoring network as a result of the OMP revision. These changes are detailed in the revised OMP (Senversa, 2023a).

4 Quality Assurance and Quality Control

4.1 Data Validation Process

A critical aspect of site assessments is the demonstration of the quality of the data used as the basis for the assessment. This is achieved through a Data Validation process which includes a review of the following data quality indicators, as described in the SAQP, presented in Appendix E:

- Quality Assurance documentation.
- Bias.
- Data Representativeness.
- Data Precision & Accuracy.
- Laboratory Performance.
- Data Comparability.
- Data Set Completeness.

4.2 QA/QC Summary

The primary laboratory has undertaken different Quality Control (QC) measures in all sets of sample analysis which validate precision and accuracy of their techniques. The laboratories are appropriately certified by the National Association of Testing Authorities (NATA) for environmental sample analysis. It is considered that the analytical results are accurate and reliable for the purposes of this assessment.

Field quality assurance and quality control (QA/QC) was recorded on field sheets, and laboratory QA/QC were reported with sample results and reviewed in the Factual Report Data Quality Reviews. Standard sampling methods, handling, preservation and transport procedures were complied with as detailed in Section 3 and in the SAQP. Quality control samples comprising blind replicate (duplicate or intra-laboratory sample), triplicate (inter-laboratory sample), rinsate blanks, field blanks and trip blanks were collected during each field event, in accordance with the frequency outlined in the SAQP. Standard procedures and qualified personnel were used for each sampling event.

Field Chain of Custody forms are included in the Factual Reports and demonstrate sample integrity. The data collected is considered comparable for each sampling event and can be used for the assessment.

The data validation process (refer to the factual report for E13 presented in Appendix D) has concluded that there are no significant systematic errors in the data collection process or laboratory QC testing. Therefore, the data set used as the basis for this assessment is considered valid and complete.

A data quality review identified the following issues regarding Offsite groundwater monitoring wells POT042, POT046 and POT051:

- POT046 is located in close proximity to POT042, and since 2018 data thought to have been collected from POT042 was indeed from POT046.
- POT046 was damaged in 2018, and POT051 was damaged in 2022. POT046 and POT051 are located in close proximity to the Eastern Main Drain, and due to the damage, surface water may enter the wells during periods of flooding.
- The well construction details are not known, however, the wells are a similar depth.
- Based on multiple lines of evidence (PFAS concentrations, major ions results, well depths), groundwater sampled from POT042, POT046 and POT051 are inferred to most likely be from the same aquifer. Considering the proximity of POT046 to POT042, PFAS results from POT046 are inferred to be representative of conditions at POT042, and thus any conclusions drawn are still valid. The damaged wells will be repaired or decommissioned, and groundwater monitoring will continue in the future.

5 Assessment Criteria

The adopted assessment criteria are outlined in the following sections. They were determined based on the assessment criteria adopted in the OMP (Senversa, 2023a). Assessment criteria are based on the current guidance outlined in:

> Heads of Environmental Protection Authority's Australia and New Zealand (HEPA; 2020), National Environmental Management Plan (NEMP), Version 2.0, January 2020; and

> National Health and Medical Research Council's Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water (NHMRC, 2019).

5.1 Groundwater and Surface Water

The adopted assessment criteria for groundwater and surface water are detailed in Table 5-1.

Table 5-1 Criteria for Groundwater and Surface Water

Exposure Scenario	Adopted Assessment Criteria		Guidance
	Perfluorohexane sulfonate (PFHxS) / perfluorooctane sulfonate (PFOS)	Perfluorooctanoic acid (PFOA)	
	µg/L		
Human Health – Surface Water Recreational	2[2]	10	HEPA 2020
Human Health – Drinking Water Quality Guideline[1]	0.07[2]	0.56	HEPA 2020
Ecological (99% species protection)	0.00023[3]	19	HEPA 2020

1. Drinking Water screening guidelines have been adopted for screening purposes for Industrial Water use, Stock Water use and Agriculture/Parks/Gardens Water use.
2. Combined PFOS and PFHxS.
3. PFOS only; The criterion of 0.00023 µg/L is lower than the laboratory LOR, however, the PFAS NEMP 2020 allows for the adoption of the laboratory LOR as a screening level rather than a quantified measurement. The LOR for PFOS to assess the adopted Ecological criterion is 0.01 µg/L.

5.2 Sediment

It is noted that there are currently no Australian regulatory endorsed assessment levels for risk posed to ecology or human health by PFAS in sediment.

6 Contextual and Ancillary Information

6.1 Additional Assessments

As part of the PMAP delivery, the Interpretive PFAS Mass Assessment (Senversa, 2023b) was completed and finalised in October 2023. The detailed assessment helped to refine the CSM and was able to estimate the mass of PFAS migrating in surface water and groundwater from Site in one year: 1.41 kg/year in total; 1.27 kg/year in surface water (90% of Offsite mass flux) and 0.14 kg/year in groundwater (10% of Offsite mass flux). It was also able to quantify mass flux from sub-catchments, and identified two key source areas which are contributing to Offsite mass flux: the Fire Station (Source ID 06) and Former AFFF Testing Area (Source ID 11). Sub-catchment contributions to annual total PFAS mass discharge were estimated as follows:

- Sub-catchment A and B: 37% (includes Source ID 06 – Current Fire Station)
- Sub-catchments C, D and E: 11%
- Sub-catchment J: 18% (includes Source ID 11)
- Sub-catchments K, L and M: 24%

Surface water-groundwater interactions were also better understood, including further evidence inferring that PFAS-impacted groundwater from the Current Fire Station (Source ID 06) discharges into the Main Airfield Drains and subsequently into the Eastern Main Drain, which is an important migration mechanism. There was also further evidence inferring the discharge of shallow groundwater into the Eastern Main Drain, however, inferred discharge rates are low.

Based on the results of the Interpretive PFAS Mass Assessment (Senversa, 2023b), sediment leaching and sediment transport are not considered to be a major pathway for PFAS mass discharge from the Site.

The various findings of the Interpretive PFAS Mass Assessment (Senversa, 2023b) have been taken into consideration in the interpretation of 2023 OMP monitoring results and are discussed in various sections of this report, including Sections 8 and 9.

6.2 Upcoming Works in the Next 12 Months

It is understood that in 2024, the following PMAP works are planned:

- Review and revision of the PMAP;
- Review and revision of the OMP;
- Finalisation of the Remediation Action Plan (RAP).

6.3 Other Information

No AFFF releases were reported to have occurred during the 2023 monitoring period.

7 Monitoring Data Summary

7.1 Groundwater

7.1.1 Groundwater Water Quality Parameters

The stabilised groundwater water quality parameters recorded during the November 2023 (E13) monitoring event are summarised in Table 7-1 below. Stabilised water quality parameters, water colour and turbidity observations recorded during the groundwater sampling program are presented in Table B1a, Appendix B.

Table 7-1 Groundwater Water Quality Parameters (November 2023)

Location	pH	DO (mg/L)	EC (µS/cm)	TDS[1] (mg/L)	ORP (mV)
Onsite	6.20 (MW701) – 7.62 (MW323) *Near neutral conditions*	0.52 (MW627) – 6.91 (MW708) *Anaerobic to Aerobic conditions*	564.0 (MW616) – 17,575 (MW715)	366.60 (MW616) – 11,423 (MW715) *Fresh to brackish water*	-232.3 (MW716) – 174.1 (MW719) *Reducing to oxidising conditions*
Offsite	6.12 (POT027) – 7.59 (MW304) *Near neutral conditions*	0.43 (POT042) – 4.44 (MW319) *Anaerobic to Aerobic conditions*	317.3 (POT051) – 10,062 (MW015)	206.3 (POT051) – 6,540 (MW015) *Fresh to brackish water*	-298.6 (MW015) – 30.3 (POT027) *Reducing to slightly oxidising conditions*

[1] EC in µS/cm converted to total dissolved solids (TDS) in mg/L by multiplying by 0.65.

Groundwater water quality parameters recorded during the groundwater sampling program are presented in Table B1a, Appendix B.

In summary, the water quality parameter results indicate the following:

- Onsite and Offsite groundwater were near neutral in pH and ranging from anaerobic to aerobic conditions regarding Dissolved Oxygen (DO).
- Electrical Conductivity (EC) and Total Dissolved Solids (TDS) ranged from fresh to brackish water for all groundwater. The highest EC values were recorded higher Onsite (17,575 µS/cm – MW715) than Offsite (10,062 µS/cm – MW015).
- Oxidation Reduction Potential (ORP): Both Onsite and Offsite locations consisted of reducing to oxidising conditions.

Onsite groundwater locations were generally more brackish than Offsite locations. Most brackish locations were located in the southern portion of the Site along the southern Site boundary, Eastern Main Drain and Former Waste Burial Area (Source ID 07). Locations with fresher water was observed in the north-west portion of the Site throughout existing infrastructure such as roads and buildings within the MEOMS area (Source ID 05) and along the runways. Higher salinity associated with locations along the southern Site boundary and Eastern Main Drain may potentially be affected by groundwater hydraulically upgradient in the Former Waste Burial Area (Source ID 07). However, it is unclear what mechanism may be contributing to these variations. Salinity between the Upper Alluvial and Lower Alluvial were similar in all areas of the Site, with fresher waters consistently reported in the Haunted Hills (deepest) aquifer at nested well locations. Potential mechanisms considered were rainfall events or prolonged periods of rain where recharge of the Upper Alluvial aquifer may occur, including groundwater-surface water interactions, predominantly around or within proximity to some of the drainage network. There were no significant seasonal variations observed and therefore no trend was established. Rainfall data are presented in Section 7.2.2.4.

7.1.2 Groundwater Elevation and Flow Directions

Groundwater flow for all three aquifers during the November 2023 sampling event was interpreted to be generally in a south-easterly direction towards The Heart Morass and Latrobe River, consistent with previous monitoring events. Contour plans are included in Figures 6A (E13 - Upper Alluvium aquifer), 6B (E13 - Lower Alluvium aquifer) and 6C (E13 - Haunted Hills aquifer), Appendix A. Gauging records are presented in Table B1a, Appendix B. The inferred contours for the Upper Alluvium aquifer indicate that divergent flow has been recorded in the north-west portion of the Site; while convergent flow has been recorded on the southern boundary of the Site (likely due to the invert level of the Eastern Main Drain being near sea level in the

south-eastern corner of the Site). Contour data for the Lower Alluvium and Haunted Hills aquifers are based on a limited number of wells. A summary of the groundwater elevation range encountered for all three aquifers during each monitoring event is presented in Table 7-2 (2020 data has been presented for comparison).

Table 7-2 Groundwater Elevation Range Summary

Event	Groundwater Elevation Range (mAHD)		
	Upper Alluvium (Shallow) Aquifer	Lower Alluvium (Intermediate) Aquifer	Haunted Hills (Deep) Aquifer
Nov 2019 (E1)	-2.197 (MW714) to 5.610 (MW609)	-1.014 (MW741) to 4.935 (MW010)	-0.296 (MW321) to 4.362 (MW737)
Mar 2020 (E2)	-1.901 (MW714) to 4.994 (MW734)	-0.948 (MW741) to 4.749 (MW010)	-0.391 (MW321) to 1.267 (MW729)
Jun 2020 (E3)	-0.151 (MW713) to 5.034 (MW734)	0.080 (MW318) to 4.977 (MW010)	0.054 (MW321) to 4.040 (MW737)
Nov 2020 (E4)	0.019 (MW316) to 5.143 (MW734)	0.267 (MW318) to 4.748 (MW010)	0.209 (MW009) to 2.022 (MW729)
Jan/Feb 2021 (E5)	-0.13 (MW316) to 5.23 (MW734)	-0.17 (MW008) to 4.890 (MW010)	-0.37 (MW321) to 4.558 (MW737)
Apr 2021 (E6)	0.017 (MW707) to 5.315 (MW734)	-0.358 (MW741) to 5.278 (MW010)	0.094 (MW321) to 4.720 (MW737)
Jul/Aug 2021 (E7)	0.299 (MW617) to 6.042 (MW733)	1.014 (MW740) to 5.615 (MW010)	0.889 (MW321) to 5.059 (MW737)
Nov 2021 (E8)	0.715 (MW707) to 5.879 (MW734)	1.240 (MW740) to 6.000 (MW010)	1.120 (MW321) to 5.283 (MW737)
Feb 2022 (E9)	1.002 (MW316) to 5.761 (MW734)	1.125 (MW318) to 5.245 (MW010)	1.118 (MW321) to 5.192 (MW737)
May 2022 (E10)	1.082 (MW316) to 5.566 (MW734)	1.227 (MW318) to 5.213 (MW010)	1.013 (MW321) to 5.034 (MW737)
Aug 2022 (E11)	1.264 (MW707) to 6.021 (MW733)	1.362 (MW740) to 5.762 (MW010)	1.373 (MW321) to 5.212 (MW737)
Nov 2022 (E12)	1.341 (MW316) to 5.724 (MW306)	1.306 (MW740) to 5.362 (MW010)	1.489 (MW321) to 5.198 (MW737)
Nov 2023 (E13)	1.068 (MW316) to 5.838 (MW734)	1.177 (MW701) to 5.420 (MW010)	1.152 (MW321) to 5.266 (MW737)

Groundwater elevations in 2023 (November) were similar to elevations from the 2022 sampling events. The lower groundwater elevations in 2020 and 2021 may be influenced by heightened local Offsite groundwater pumping (extraction) activity at monitoring well MW319 and lower regional rainfall in the preceding years (i.e. 2019 and 2020; see Section 7.2.2.4 for rainfall data). There is an increasing trend for overall groundwater table elevation in each of the aquifers from 2019 to 2023 (i.e. entire OMP monitoring period). For example, the average minimum in the upper alluvium aquifer is -1.067 mAHD in 2019-2020, compared to 1.068 mAHD in 2023. This is apparent in all three aquifers across the entire OMP monitoring period. This gradual increase in groundwater table elevation is potentially due to increased regional rainfall.

Where elevations of some locations along the southern Site boundary may be affected by known seasonal irrigation pumping occurring Offsite across the wider area, elevations reported in November 2023 (E13) remain consistent with previous events. The Site had experienced rainfall higher than the monthly average in the months preceding the sampling event (October and November 2023). This has also occurred during the previous sampling events in November (2021 – E8, and 2022 – E12), and have resulted in similar groundwater elevations within the latest years of the PFAS OMP.

7.1.3 Laboratory Results

Groundwater sampling locations have been indicatively grouped with respect to the following PFAS source areas across the Site:

- North-west Area – fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03) former fire station (Source ID 04) and chemical storage area (Source ID 05) (MEOMS).
- Central Area – AFFF Foam and Equipment Testing Area (Source ID 11).
- Central/Eastern Area – current fire station (Source ID 06) and grassed area near runway (Source ID 16).
- Southern Area – former fire training areas (Source ID 08 and 09) and waste burial areas (Source ID 07).
- South-west Area – Lake Edward Area (Source ID 25).

These locations were used to identify trends in PFAS concentrations laterally along indicative groundwater flow paths and vertically within deeper aquifers. For each source area, Table 7-3 through Table 7-8 list the PFOS+PFHxS, PFOS and PFOA results with wells ordered from hydraulically upgradient to downgradient and present PFAS concentration changes (including in the deeper aquifers where results are available).

Offsite groundwater sampling locations have been grouped as:

- Remaining Offsite Monitoring Wells.

Laboratory analytical results were compared to the adopted assessment criteria, and are presented in Table B2a, Appendix B. The PFOS+PFHxS concentrations in groundwater from 2016 to 2023 are mapped in Figures 7A-7F, Appendix A. Laboratory reports are included in the E13 Factual Report, presented in Appendix D.

7.1.3.1 North-west Area - Fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03) former fire station (Source ID 04) and chemical storage area (Source ID 05) [MEOMS]

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-3.

Table 7-3 North-west Area - Fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03), former fire station (Source ID 04) and chemical storage area (Source ID 05) [MEOMS] - PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
MW733	Upper Alluvium (shallow)	PFOS+PFHxS	0.97 – 5.75	1.75
		PFOS	0.06 – 4.02	0.15
		PFOA	<0.01 – 0.03[1]	0.02
MW734	Upper Alluvium	PFOS+PFHxS	92.1 - 494	215[1]
		PFOS	80.1 - 452	200[1]
		PFOA	0.57 – 4.07	0.58[1]
MW306	Upper Alluvium	PFOS+PFHxS	190 – 3,700[1]	1,570
		PFOS	190 – 2,210	958
		PFOA	23.4 - 130	29.0
MW607	Upper Alluvium	PFOS+PFHxS	19.5 - 84[1]	2.18
		PFOS	11.4 - 58[1]	1.6[1]
		PFOA	0.57 – 1.72	0.03
MW609	Upper Alluvium	PFOS+PFHxS	1.98 - 5.02	2.23[1]
		PFOS	0.18 – 0.43	0.20
		PFOA	0.06 – 0.16[1]	0.06
MW726	Upper Alluvium	PFOS+PFHxS	51.3 – 231	117
		PFOS	0.93 – 94[1]	27.6
		PFOA	1.76 – 12.2	5.79
MW610	Upper Alluvium	PFOS+PFHxS	2.65[1] – 15.9	NS
		PFOS	0.05[1] – 5.67	
		PFOA	0.06 – 0.72	
MW326	Upper Alluvium	PFOS+PFHxS	6.1 – 49[1]	16.5
		PFOS	0.71 – 17.1	8.05
		PFOA	0.1 – 1.04	0.48
MW612	Upper Alluvium	PFOS+PFHxS	2.81 – 8.98	5.82
		PFOS	1.50 – 4.75	3.24
		PFOA	0.03 – 0.11	0.07
MW315	Upper Alluvium	PFOS+PFHxS	45 – 583	218
		PFOS	45 – 157	52.5
		PFOA	1.2 – 21.5	5.94
MW724	Upper Alluvium	PFOS+PFHxS	1.08 – 6.24	3.46
		PFOS	0.2 - 1.25	0.30
		PFOA	0.01 - 0.11	0.03
MW725	Upper Alluvium	PFOS+PFHxS	16.6 – 101.9	12.0
		PFOS	5.94 – 65.2	4.91
		PFOA	0.63 – 1.39	0.38
MW728	Upper Alluvium	PFOS+PFHxS	1.51 – 3.05	2.16
		PFOS	0.58 – 1.05	0.66
		PFOA	0.04 – 0.07	0.07
MW737	Haunted Hills (deep)	PFOS+PFHxS	<0.03 – 1.2[1]	1.48

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
		PFOS	<0.01 – 0.98[1]	1.41
		PFOA	<0.01 – 0.01[1]	<0.01

New maximum	New minimum	New exceedance[2]	First-time detection

Notes:

1. Duplicate/triplicate result adopted.
2. New exceedance of Drinking Water Criteria only

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.

NS – Not sampled

Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-3 indicates:

- New minimums for PFOS, PFOA and PFOS+PFHxS concentrations were reported at MW607 and MW725, both screened in the Upper Alluvium, in E13.
- An order of magnitude decrease for PFOA and PFOS+PFHxS concentrations was reported at MW607 compared to the previous event in November 2022 (E12).
- New maximums for PFOS and PFOS+PFHxS concentrations were reported at MW737 (Haunted Hills).
- MW610 was not sampled during the November 2023 (E13) event due to inaccessibility.
- All other reported concentrations for each respective location were within the historical range of previous sampling results.

7.1.3.2 Central Area – AFFF Foam and Equipment Testing Area (Source ID 11)

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-4.

Table 7-4 Central Area – AFFF Foam and Equipment Testing Area (Source ID 11): PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
MW738	Upper Alluvium	PFOS+PFHxS	38.3 - 636	229
		PFOS	27.7 - 534	99.6
		PFOA	<0.01 – 6.05	5.42
MW636	Upper Alluvium	PFOS+PFHxS	<0.02 – 1.731	1.08
		PFOS	<0.01 – 0.631	0.36
		PFOA	<0.01 – 0.12	0.07
MW714	Upper Alluvium	PFOS+PFHxS	0.02 - 0.93	0.04
		PFOS	0.02 - 0.83	0.04
		PFOA	<0.01	<0.01
MW712	Upper Alluvium	PFOS+PFHxS	<0.01 – 0.05	<0.01
		PFOS	<0.01 – 0.04	<0.01
		PFOA	<0.01	<0.01
MW707	Upper Alluvium	PFOS+PFHxS	2.8 – 14.9	3.14
		PFOS	1.48 – 11.6	1.76
		PFOA	0.05 – 0.26	0.07
MW741	Lower Alluvium	PFOS+PFHxS	<0.01 – 0.52	0.20
		PFOS	<0.01 – 0.36	0.15
		PFOA	<0.01	<0.01
MW729	Haunted Hills	PFOS+PFHxS	<0.03 – 15.2	13.8
		PFOS	<0.01 – 10.1	9.82
		PFOA	<0.01 - 0.17	0.12

New maximum	New minimum	New exceedance[2]	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
2. New exceedance of Drinking Water Criteria only

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-4 indicates:

> There were no new minimums, new maximums, new exceedances or first-time detections reported in the November 2023 (E13) event for PFOS, PFOA or PFOS+PFHxS. All reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.1.3.3 Central/Eastern Area – Current Fire Station (Source ID 06) and Grassed Area Near Runway (Source ID 16).

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-5.

Table 7-5 Central/Eastern Current Fire Station (Source ID 06) and Grassed Area Near Runway (Source ID 16): PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
MW719	Upper Alluvium	PFOS+PFHxS	2,110 – 12,700	6,150
		PFOS	1,260 – 8,680	3,070
		PFOA	72.7 – 480	366
MW720	Upper Alluvium	PFOS+PFHxS	589 – 7,330	1,370
		PFOS	273 – 3,990	456
		PFOA	15.3 – 166	43.4
MW730	Upper Alluvium	PFOS+PFHxS	0.37 – 3.08	1.67
		PFOS	<0.01 – 0.53	0.31
		PFOA	<0.01 – 0.03	<0.01
MW716	Upper Alluvium	PFOS+PFHxS	<0.01 – 10.66	0.11
		PFOS	<0.01 – 9.44	0.09
		PFOA	<0.01 – 0.11	<0.01

New maximum	New minimum	New exceedance[2]	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
2. New exceedance of Drinking Water Criteria only

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-5 indicates:

> There were no new minimums, new maximums, new exceedances or first-time detections reported in the November 2023 (E13) event for PFOS, PFOA or PFOS+PFHxS. All reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.1.3.4 Southern Area – Former Fire Training Areas (Source ID 08 and 09) and Waste Burial Areas (Source ID 07)

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events is presented in Table 7-6.

Table 7-6 Southern Area - Former Fire Training Areas (Source ID 08 & 09) and Waste Burial Areas (Source ID 07): PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
MW616	Upper Alluvium	PFOS+PFHxS	290 – 1,060	601
		PFOS	142 – 536	250
		PFOA	10.4 – 43.3	25.7
MW201	Upper Alluvium	PFOS+PFHxS	3,730 – 10,200	7,540
		PFOS	238 – 983	735
		PFOA	178 – 514	423
MW202	Upper Alluvium	PFOS+PFHxS	473 – 1,580	874
		PFOS	265 – 736	451
		PFOA	11 – 46.2	31.1
MW622	Upper Alluvium	PFOS+PFHxS	274 – 810	472
		PFOS	129 – 551	254
		PFOA	5.21 – 19.3	10.7[1]
MW617	Upper Alluvium	PFOS+PFHxS	<0.03 – 0.73	0.67
		PFOS	<0.01 – 0.67	0.50
		PFOA	<0.01	<0.01
MW623	Upper Alluvium	PFOS+PFHxS	4.87 - 7.99	7.19
		PFOS	2.28 – 4.90	4.77
		PFOA	0.1 - 0.19	0.13
MW626	Upper Alluvium	PFOS+PFHxS	0.06 – 7.37	5.28
		PFOS	0.02 – 4.56	0.76
		PFOA	<0.01 – 0.22	0.12
MW709	Upper Alluvium	PFOS+PFHxS	7.84 – 16.5	10.9
		PFOS	2.45 – 6.5[1]	4.59
		PFOA	0.12 – 0.41	0.33
MW627	Upper Alluvium	PFOS+PFHxS	4.87[1] – 62.5	37.6
		PFOS	2.23[1] – 25.6	15.8
		PFOA	0.7 – 2.65	1.33
MW628	Upper Alluvium	PFOS+PFHxS	9.52 – 21.80	13.9
		PFOS	1.42 – 7.33	2.52
		PFOA	0.07 – 0.40	0.16
MW702	Upper Alluvium	PFOS+PFHxS	7.69 – 22.1	15.6
		PFOS	3.68[1] – 11.7	10.7
		PFOA	0.23 - 0.78	0.37
MW711	Upper Alluvium	PFOS+PFHxS	<0.10 – 1.54	0.21
		PFOS	<0.1 – 1.17	0.04
		PFOA	<0.01 – 0.02	<0.01
MW708	Upper Alluvium	PFOS+PFHxS	0.67 – 14.84	2.11
		PFOS	0.14 – 7.66	0.73
		PFOA	0.03 – 0.29	0.10
MW735	Upper Alluvium	PFOS+PFHxS	<0.01 – 0.66	0.14
		PFOS	<0.01 – 0.43	0.12
		PFOA	<0.01 – 0.01	<0.01
MW715	Upper Alluvium	PFOS+PFHxS	<0.01 – 0.72	0.17
		PFOS	<0.01 – 0.62	0.13
		PFOA	<0.01	<0.01
MW304	Upper Alluvium	PFOS+PFHxS	0.12 – 1.72	1.45

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
		PFOS	<0.01 – 1.22	1.08
		PFOA	<0.01 – 0.05	0.02
MW310	Lower Alluvium	PFOS+PFHxS	0.09 – 0.73	1.83
		PFOS	0.09 – 0.44	1.21
		PFOA	<0.01 – 0.02	0.03
MW323	Lower Alluvium (Intermediate)	PFOS+PFHxS	30.5 – 145	115
		PFOS	13.6 – 61.4	51.3
		PFOA	0.8 – 5.66	4.49
MW324	Lower Alluvium	PFOS+PFHxS	3.33 – 233	106
		PFOS	1.45 – 94.7	41.9
		PFOA	0.03 – 9.12	3.98
MW704	Lower Alluvium	PFOS+PFHxS	2.46 – 523	74.4
		PFOS	1.3 – 261	35.6
		PFOA	0.05 – 7.96	2.57
MW739	Lower Alluvium	PFOS+PFHxS	5.67 – 24.1	11.7
		PFOS	2.57 – 15.8	6.44
		PFOA	0.1 – 0.64	0.36
MW740	Lower Alluvium	PFOS+PFHxS	2.08 – 8.33	4.65[1]
		PFOS	1.24 – 6.56	3.38[1]
		PFOA	0.06 – 0.19	0.11
MW701	Lower Alluvium	PFOS+PFHxS	<0.01 – 0.44[1]	<0.01
		PFOS	<0.01 – 0.23[1]	<0.01
		PFOA	<0.01 – 0.01	<0.01
MW705	Haunted Hills	PFOS+PFHxS	0.23 – 2.19	2.11[1]
		PFOS	0.1 – 1.53	1.79[1]
		PFOA	<0.01 – 0.04	0.02
MW312	Haunted Hills	PFOS+PFHxS	<0.01 – 0.26	<0.01
		PFOS	<0.01 – 0.2	<0.01
		PFOA	<0.01	<0.01

New maximum	New minimum	New exceedance[2]	First-time detection

Notes:

1. Duplicate/triplicate result adopted.
2. New exceedance of Drinking Water Criteria only

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.

NS – Not sampled

Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-6 indicates:

> A new maximum for PFOS concentrations was reported at MW705 (Haunted Hills).

> All other reported concentrations for each respective location were within the historical range of previous sampling results.

7.1.3.5 South-west Area – Lake Edward Area (Source ID 25)

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-7.

Table 7-7 South-west Area – Lake Edward Area (Source ID 25): PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
MW603	Upper Alluvium	PFOS+PFHxS	<0.01 – 1.64	3.52
		PFOS	<0.01[1] – 1.02	1.46
		PFOA	0.02 – 0.03	0.05
MW325	Upper Alluvium	PFOS+PFHxS	1.83 – 28.84	6.81
		PFOS	0.1 – 6.52	2.87
		PFOA	0.07 – 3.17	1.58

New maximum	New minimum	New exceedance[2]	First-time detection

Notes:

1. Duplicate/triplicate result adopted.
2. New exceedance of Drinking Water Criteria only

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.

NS – Not sampled

Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-7 indicates:

- New maximums for PFOS, PFOA and PFOS+PFHxS concentrations were reported at MW603 (Upper Alluvium).
- An order of magnitude increase for PFOS was also reported at MW603 compared to the previous event in November 2022 (E12).
- Reported concentrations at MW325 were within historical range and within one order of magnitude of the previous sampling results.

7.1.3.6 Remaining Offsite Monitoring Wells

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events is presented in Table 7-8.

Table 7-8 Remaining Offsite Monitoring Wells – Groundwater PFOS+PFHxS and PFOA Concentrations (µg/L)

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
MW015	Upper Alluvium	PFOS+PFHxS	<0.01 – 0.05	0.11
		PFOS	<0.01 – 0.02	0.08
		PFOA	<0.01	<0.01
MW316	Upper Alluvium	PFOS+PFHxS	<0.01 – 0.93	<0.01
		PFOS	<0.01 – 0.89	0.01
		PFOA	<0.01 - <0.02	<0.01
MW010	Lower Alluvium	PFOS+PFHxS	<0.01 – 0.08	<0.01
		PFOS	<0.01 – 0.04	<0.01
		PFOA	<0.01	<0.01
MW008	Lower Alluvium	PFOS+PFHxS	<0.01 – 0.11	0.25
		PFOS	<0.01 – 0.07	0.19
		PFOA	<0.01	<0.01
MW016	Lower Alluvium	PFOS+PFHxS	<0.01 – 0.09	0.10
		PFOS	<0.01 – 0.06	0.06
		PFOA	<0.01	<0.01
MW318	Lower Alluvium	PFOS+PFHxS	<0.02 – 0.06	0.14
		PFOS	<0.01 – 0.04	0.11
		PFOA	<0.01 - <0.02	<0.01
MW009	Haunted Hills	PFOS+PFHxS	<0.01 – 0.15	0.79
		PFOS	<0.01 – 0.12	0.59

Location ID	Aquifer	Analyte	Historical Concentration Range	(E13) November 2023
		PFOA	<0.01	<0.01
MW321	Haunted Hills	PFOS+PFHxS	<0.02 – 0.04	0.15
		PFOS	<0.01 – 0.04	0.11
		PFOA	<0.01 - <0.02	<0.01
MW014	Boisdale Formation	PFOS+PFHxS	<0.01 – 0.13	<0.01
		PFOS	<0.01 – 0.09	<0.01
		PFOA	<0.01	<0.01
MW302	Point of Use	PFOS+PFHxS	<0.01 – 0.09	0.03
		PFOS	<0.01 – 0.01	0.02
		PFOA	<0.01 – 0.03	<0.01
MW319	Point of Use	PFOS+PFHxS	<0.01 – 0.11	0.06
		PFOS	<0.01 – 0.04	0.03
		PFOA	<0.01	<0.01
POT027	Point of Use	PFOS+PFHxS	<0.01 - <0.03	<0.01
		PFOS	<0.01	<0.01
		PFOA	<0.01	<0.01
POT034	Point of Use	PFOS+PFHxS	<0.01 – 0.02	<0.01
		PFOS	<0.01 – 0.02	<0.01
		PFOA	<0.01	<0.01
POT042	Point of Use	PFOS+PFHxS	<0.01 – 0.13	0.44
		PFOS	<0.01 – 0.09	0.38
		PFOA	<0.01	<0.01
POT050	Point of Use	PFOS+PFHxS	<0.01 – 0.02	<0.01
		PFOS	<0.01 – 0.02	<0.01
		PFOA	<0.01	<0.01
POT051	Point of Use	PFOS+PFHxS	<0.01 – 0.12	0.39
		PFOS	<0.01 – 0.1	0.37
		PFOA	<0.01	<0.01

New maximum	New minimum	New exceedance[2]	First-time detection

Notes:

1. Duplicate/triplicate result adopted.
2. New exceedance of Drinking Water Criteria only

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.

NS – Not sampled

Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-8 indicates:

- New exceedances of adopted Drinking Water Criteria for PFOS+PFHxS concentrations were reported at MW015 (Upper Alluvium), MW318 (Lower Alluvium) and MW321 (Haunted Hills).
- New maximums for PFOS+PFHxS, PFOS and PFOA concentrations were reported at MW310 (Lower Alluvium),
- New maximums for PFOS+PFHxS and PFOS concentrations were reported at MW015 (Upper Alluvium), MW008 (Lower Alluvium), MW318 (Lower Alluvium), MW009 (Haunted Hills), MW321 (Haunted Hills), POT042 and POT051.
- New maximums for PFOS+PFHxS concentrations only were reported at MW016 (Lower Alluvium).
- New maximums for PFOS concentrations only were reported at MW302 (Point of Use).
- POT042 and POT051 reported one order of magnitude increases for PFOS and PFOS+PFHxS concentrations compared to the previous event in November 2022 (E12).

> All other reported concentrations for each respective location were within the historical range of previous sampling results.

7.2 Surface Water

7.2.1 Surface Water Quality Field Parameters

The stabilised surface water quality field parameters recorded during the November 2023 (E13) monitoring event are summarised in Table 7-9 below. Stabilised water quality field parameters, water colour and turbidity observations recorded during the surface water sampling program are presented in Table B1b, Appendix B.

Table 7-9 Summary of Surface Water Quality Field Parameters (November 2023)

Location	Range	pH	DO (mg/L)	EC (µS/cm)	TDS[1] (mg/L)	ORP (mV)
Onsite	Range (Min – Max)	6.47 (SW230) – 9.74 (SW223) *Near neutral to alkaline conditions*	0.00 (SW209) – 8.78 (SW351) *Anaerobic to aerobic conditions*	166.5 (SW351) – 12,345 (SW231)	108.23 (SW351) – 8,024 (SW231) *Fresh to brackish water*	-178 (SW231) – 47.1 (SW203) *Reducing to slightly oxidising conditions*
Offsite	Range (Min – Max)	5.95 (SW041) – 8.04 (SW080) *Slightly acidic to slightly alkaline conditions*	0.79 (SW049) – 6.65 (SW277) *Anaerobic to aerobic conditions*	62.5 (SW049) – 4,028 (SW011)	40.6 (SW049) – 2,618 (SW011) *Fresh to slightly brackish water*	-286.1 (SW033) – 133.4 (SW031) *Reducing to oxidising conditions*

[1] EC in µS/cm converted to TDS in mg/L by multiplying by 0.65.

In summary, the water quality field parameter results indicate the following:

> pH: Onsite surface water ranged from neutral to alkaline conditions. Offsite surface water ranged from slightly acidic to slightly alkaline conditions.

> DO: All surface water ranged from anaerobic to aerobic conditions.

> EC and TDS: Surface water was generally fresh to brackish. Highest EC values were recorded higher Onsite (12,345 µS/cm – SW231) than Offsite (4,028 µS/cm – SW011).

> ORP: Surface water Onsite and Offsite generally ranged from reducing to oxidising conditions.

7.2.2 Surface Water Elevation & Flow

7.2.2.1 Onsite

Qualitative surface water flow and surface water elevation observations were recorded during the November 2023 (E13) event. Surface water elevations were recorded relative to a fixed survey mark at select locations along the Eastern Main Drain (SW235, SW237, SW251, SW258, SW259 and SW260). These measurements will be used in conjunction with groundwater level data recorded by data loggers deployed within select monitoring wells across the Site to assess potential surface water-groundwater interaction. Flow rate was determined using qualitative observations at all Onsite surface water sampling locations.

Surface water flow across the Onsite area (all drainage networks) was determined by placing a leaf or plant matter into the water for several seconds to visually assess flow and qualitatively determine a rate, based on the following:

> High flow = Over 1 m/s

> Medium flow = 0.5 – 1 m/s

> Low flow = 0.01 – 0.5 m/s

The number of surface water monitoring locations observed to have low, medium or high flow during the November 2023 (E13) event is summarised in Table 7-10. Most locations were stagnant except for:

> Low flow at SW001, SW015, SW031, SW49, SW077, SW080 and SW082.

During the November 2023 sampling event, most surface water sampling locations were stagnant, most likely due to a lack of rain in the two weeks leading up to the sampling event (12 mm in total) and no rain during the sampling event (http://www.bom.gov.au/, accessed 29 March 2024).

Table 7-10 Surface Water Level & Flow Summary

Event	Surface Water Level (mAHD) Range Min - Max	Surface Water Flow[1]
Nov 2019 (E1)[2]	0.411 (SW251) – 1.035 (SW257)	Not measured (locations SW201, SW203, SW206, SW216, SW217, SW224, SW226, SW227, SW235, SW237, SW242, SW252, SW256, SW259, SW260 were dry)
Mar 2020 (E2)[2]	0.401 (SW251)	Low = 28, medium = 8, high = 5 (locations SW093, SW222, SW235, SW237, SW238, SW239, SW252, SW256, SW257, SW258, SW259 and SW260 were dry)
Jun 2020 (E3)[2]	0.591 (SW260) - 0.954 (SW258)	Low = 24, medium = 15, high = 8 (locations SW201, SW206, SW216, SW217, SW224, SW226, SW235, SW237, SW239, SW242, SW252, SW256, SW257 were dry)
Nov 2020 (E4)[2]	0.671 (SW260) - 1.471 (SW251)	Low = 29, medium = 7, high = 9 (locations SW201, SW026, SW216, SW217, SW222, SW224, SW226, SW235, SW237, SW242, SW248, SW249, SW250, SW252, SW256 were dry)
Jan/Feb 2021 (E5)	0.611 – 0.994 (locations SW235 and SW237 were dry)	Low = 16, medium = 7, high = 2 (locations SW201, SW216, SW217, SW224, SW226, SW235, SW237, SW242 and SW252 were dry)
Apr/May 2021 (E6)	0.506 – 0.976 (locations SW235, SW237 and SW258 were dry)	Low = 22, medium = 1 (locations SW201, SW206, SW216, SW217, SW222, SW224, SW226, SW235, SW237, SW242 and SW252 were dry)
Jul/Aug 2021 (E7)	0.506 – 0.976 (unable to locate survey marker at SW235, SW237 and SW258)	Low = 27, high = 2 (locations SW201, SW206, SW217, SW224 and SW226 were dry)
Nov 2021 (E8)	1.782 – 2.299 (unable to locate survey marker at SW237, SW251, SW258, SW259 and SW260)	Low = 11, medium = 14, high = 7 (locations SW216 and SW224 were dry and SW206 was inaccessible)
Feb 2022 (E9)	0.506 – 1.733 (SW251 and SW260)	Low = 39, medium = 4, high = 2 (locations SW201, SW206, SW216, SW217, SW224, SW226, SW235, SW237, SW242, SW246, SW252 and SW353 were dry)
May 2022 (E10)	0.506 – 1.288 (SW251 and SW257)	Low = 14, medium = 1, high = 9, stagnant = 21 (locations SW201, SW206, SW209, SW216, SW217, SW224, SW226, SW235, SW237, SW242, SW252 and SW353 were dry)
Aug 2022 (E11)	NM	Low = 16, medium = 4, high = 11, stagnant = 20 (locations SW216 and SW224 were dry. Multiple locations SW011, SW012, SW014, SW015, SW016, SW031 and SW035 could not be accessed due to high water levels)
Nov 2022 (E12)	NM	Low = 8, medium = 2, stagnant = 29
Nov 2023 (E13)	0.651 - 1.529 (unable to locate survey marker at SW257, SW258, SW259 and SW260)	Low = 7, stagnant = 36 (dry locations include SW201, SW208, SW217, SW222, SW226, SW242, SW353 and SW366. SW030 and SW206 were inaccessible)

Note:
1. Number of locations with respective qualitative flow rate observation.
2. Historical events occurring prior to the 2023 monitoring period included for context.

NM = not measured as survey markers were not accessible due to significantly higher water elevations than previous monitoring events.

7.2.2.2 Offsite

The water volume within The Heart Morass wetland is measured as Storage Water Level Available for release (SWLAR) as per Department of Energy, Environment and Climate Action (DEECA). Although it is not a direct representation of water levels at The Heart Morass, the SWLAR is calculated by subtracting the minimum operating level from the current water level measured via a gauge (gauge 226611)[1], essentially providing a water elevation measurement. This is the method used to record water levels within The Heart Morass. Storage Water Levels and TDS within The Heart Morass over the course of the Ongoing Monitoring Program are shown in Figure 7-1 below.

The water level ranged between 0.053 m (March 2023) and 1.245 m (October 2023) on the water gauge during 2023. Water levels recorded during the November 2023 (E13) sampling event ranged from 0.162 m to 0.246 m. From Figure 7-1, it can be seen that both the July 2021 (E7) and November 2023 (E13) sampling events took place shortly after a flooding event when the flood waters have just receded, whilst the November 2022 (E12) sampling event took place during a flooding event. For the first six OMP sampling events (November 2019 to May 2021), water levels within The Heart Morass were persistently low and TDS was relatively high (likely dominated by groundwater discharge). This is juxtaposed with persistently low TDS (generally <1,000 mg/L) after the significant flood event in June 2021.

It also appears that there are small (generally <0.1 m) but consistent diurnal fluctuations in water levels within The Heart Morass, which may be a result of minor tidal influences and/or changes in barometric pressure.

Flow rates were mostly high in January/February 2021 (E5) and November 2022 (E12), and variable between high, medium and low from April/May 2021 to August 2022 (E6 – E11). Flow rates recorded in the November 2023 (E13) event were mostly stagnant with some locations recording low flow rates. The Heart Morass is where most low flow observations during the sampling event were reported.

[1] https://data.water.vic.gov.au/, accessed 8/2/2024.

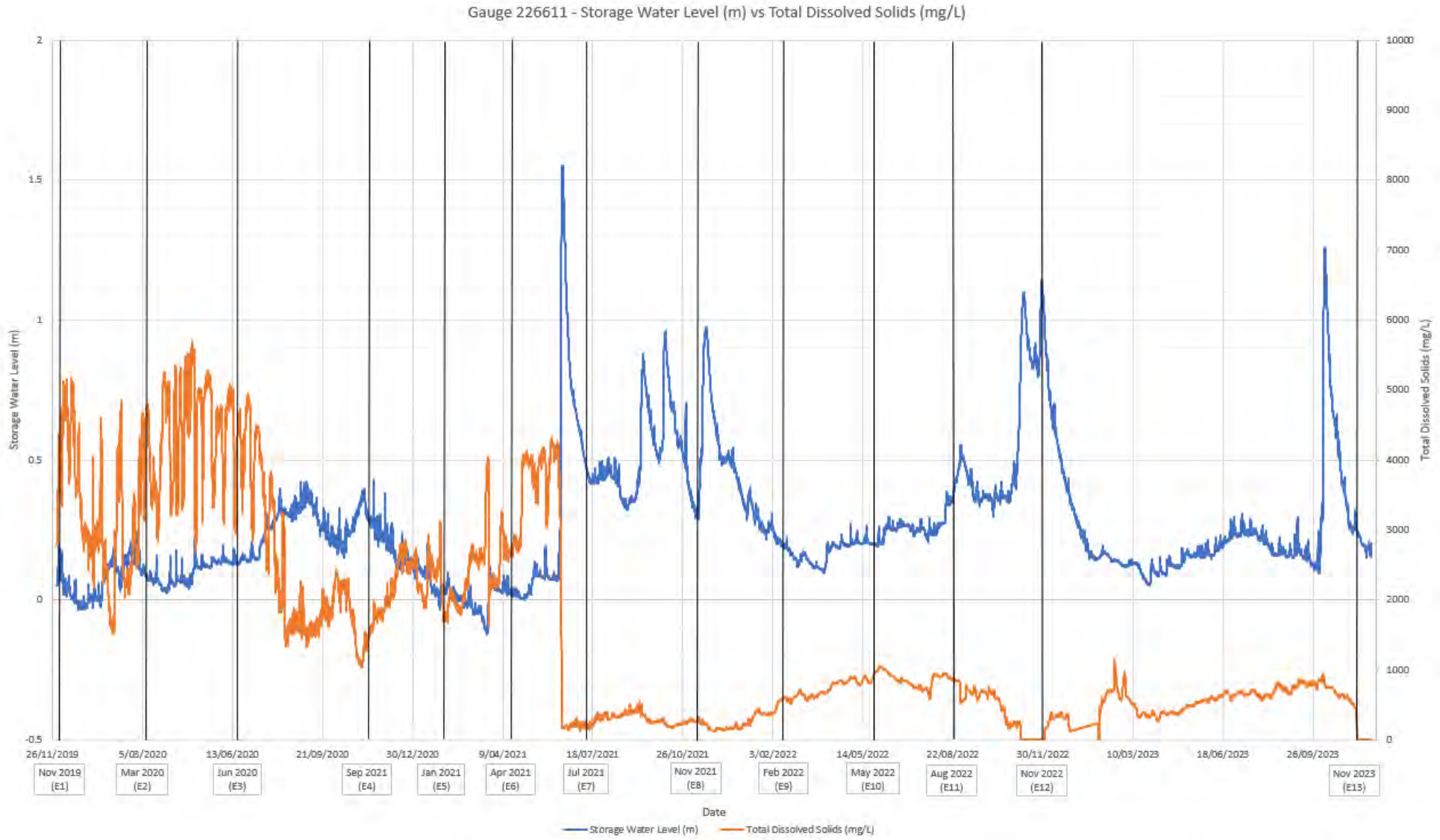

Figure 7-1 Storage Water Levels and TDS within The Heart Morass over the course of the Ongoing Monitoring Program

7.2.2.3 Data Logger

Data loggers for monitoring water elevation levels have been deployed in groundwater and surface water monitoring locations and in-situ prior to the E13 sampling event. Some groundwater and surface water locations are co-located to monitor groundwater-surface water interactions that may be occurring between groundwater and surface water within the Western Drain and the Eastern Main Drain. Data from these points have been incorporated into the OMP to assist with improving the CSM.

Graphs presented below show the comparison of data logger data between three co-located groundwater and surface water monitoring locations. Rainfall has also been plotted on a secondary axis to display how rainfall trends may be correlated with water elevations in both groundwater and surface water.

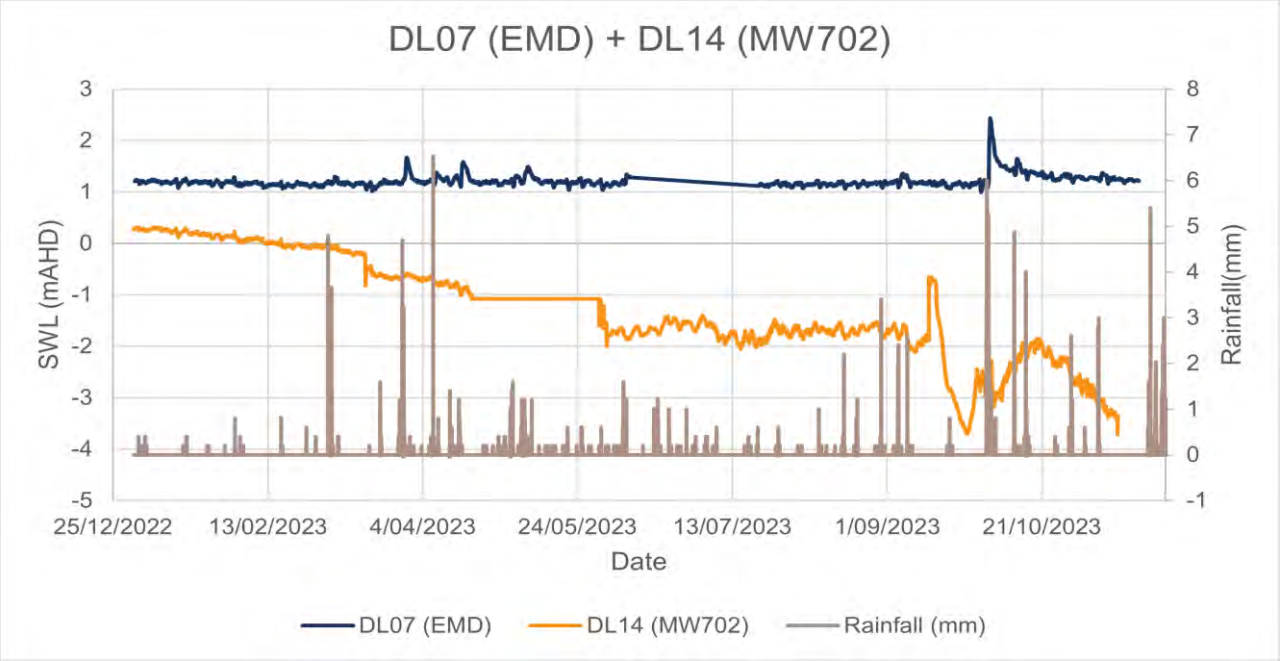

Figure 7-2 Water elevation (mAHD) at DL07 and DL14 plotted against rainfall (mm)

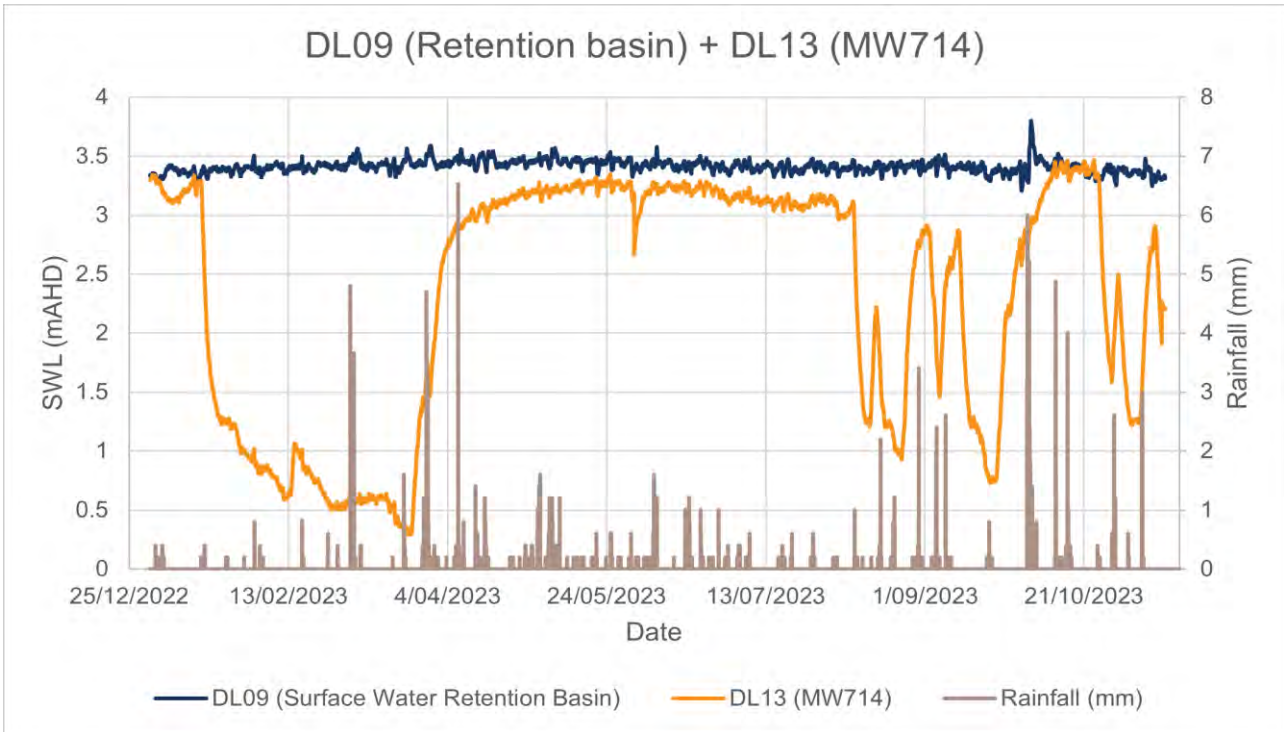

Figure 7-3 Water elevation (mAHD) at DL09 and DL13 plotted against rainfall (mm)

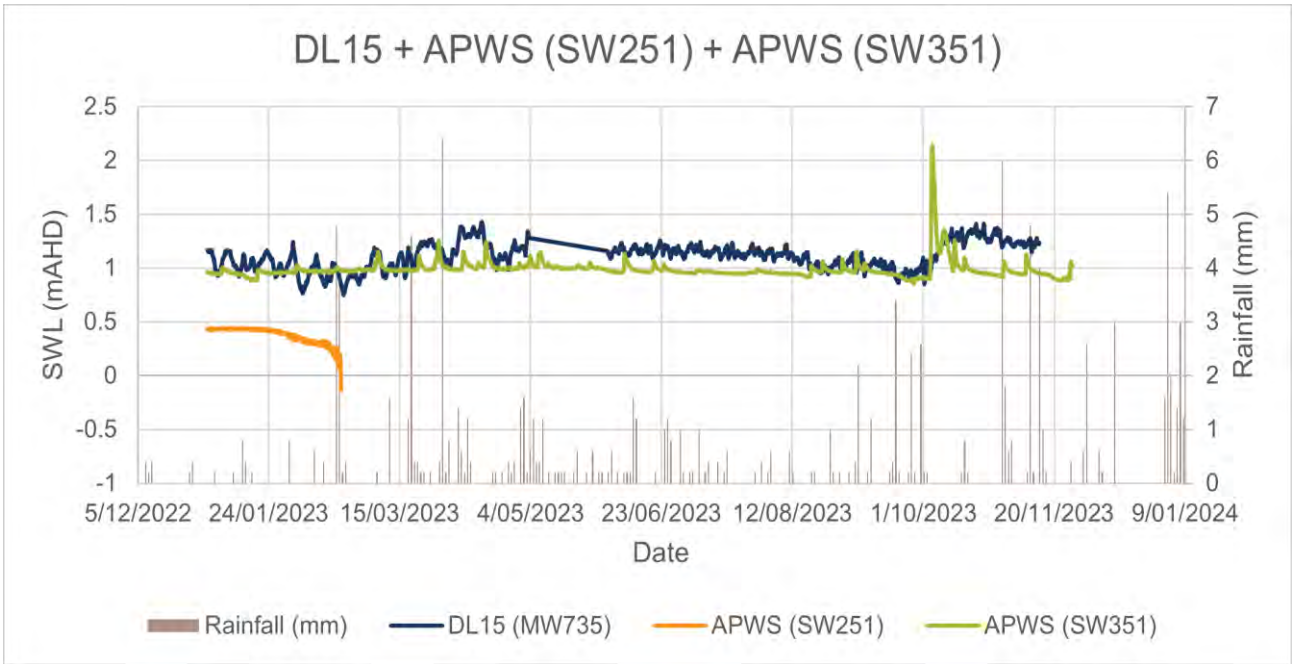

Figure 7-4 Water elevation (mAHD) at DL15, APWS (SW251) and APWS (SW351) plotted against rainfall (mm)

The data logging data indicates the following as summarised in the Interpretive PFAS Mass Assessment (Senversa, 2023b):

- Surface water within the Retention Basin in the Western Drain is primarily in a losing relationship with groundwater as a result of nearby Offsite groundwater extraction activities. The groundwater elevation is lower than the surface water elevation for most of 2023, only briefly equalling each other in October.
- The invert level of the Western Drain to the east of the retention basin is approximately 2.3 mAHD. Considering that this portion of the Western Drain contains very little water during drier periods, it is inferred that groundwater near MW714 has the potential to discharge to the Western Drain when Offsite groundwater extraction activities are not occurring.
- The relationship between groundwater and surface water along the Western Drain near its confluence with the Eastern Main Drain appears to be variable, with groundwater elevation fluctuating above and below the surface water elevation. It is likely that any interactions, either gaining or losing, would be minor.
- Majority of APWS (SW251) data is not presented as the data logger was damaged and required replacement in February 2023. It was successfully replaced in February 2024.

7.2.2.4 Rainfall

Regional rainfall has increased since 2021 compared to earlier years of OMP sampling, which began in 2019. The average annual rainfall from 2021 to 2023 is 733.8 mm. The last time annual rainfall was within 5% of this amount was in 2011, with 716.0 mm recorded. Notably, there is potential seasonality in the rainfall data, as October and November from 2021 to 2023 consistently show higher rainfall totals than the monthly averages for each year.

Higher surface water levels were observed both Onsite and Offsite during the November 2023 sampling event. This was likely due to increased regional rainfall in the weeks leading up to the event, with 162.8 mm in October, and 81.4 mm in November 2023, as shown in Figure 7-9. A similar pattern was seen in 2022, when average surface water levels Onsite and Offsite were higher compared to earlier years of OMP sampling. The increased rainfall has previously caused flooding of The Heart Morass and overflow of the Latrobe River into The Heart Morass. However, during the November 2023 sampling event, although surface water levels were similar to those in previous years, no flooding or river overflow was observed.

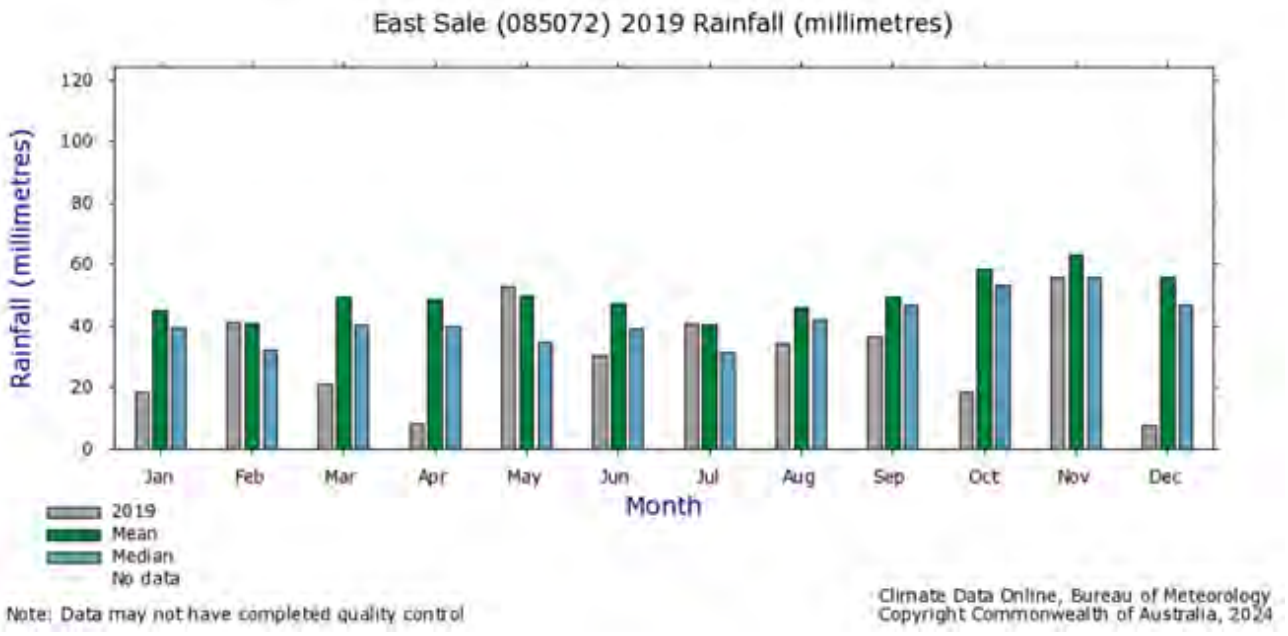

Figure 7-5 Mean monthly rainfall data (Station 085072) and rainfall data per month for 2019 (BoM, 2024)

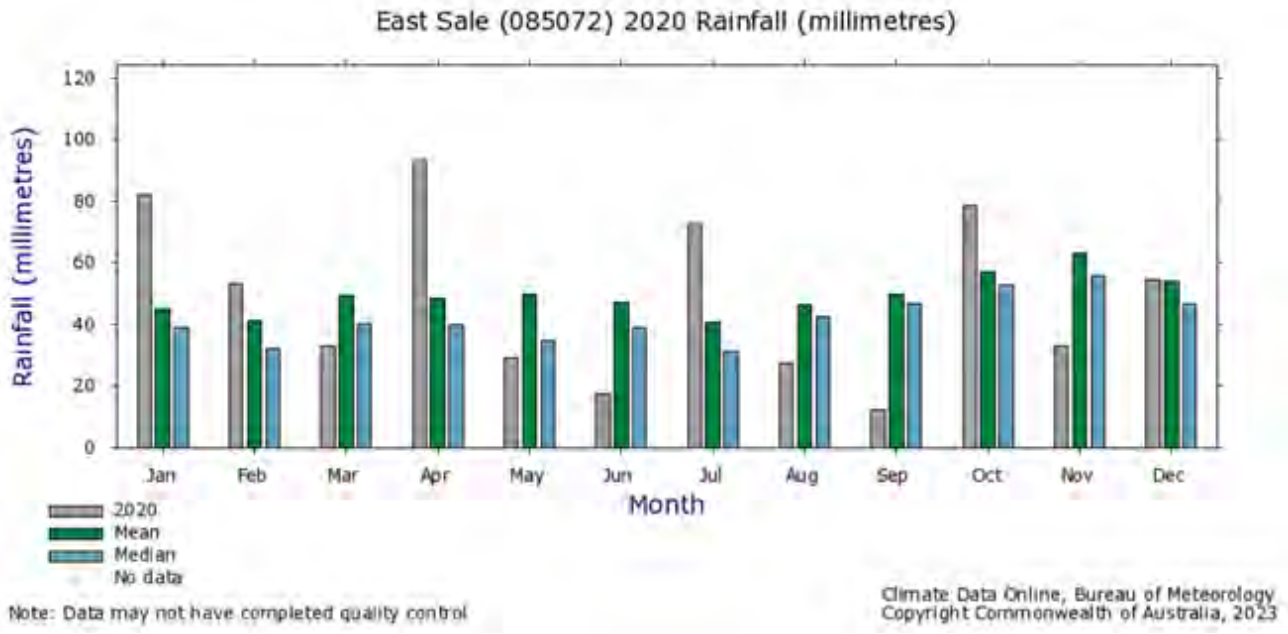

Figure 7-6 Mean monthly rainfall data (Station 085072) and rainfall data per month for 2020 (BoM, 2023)

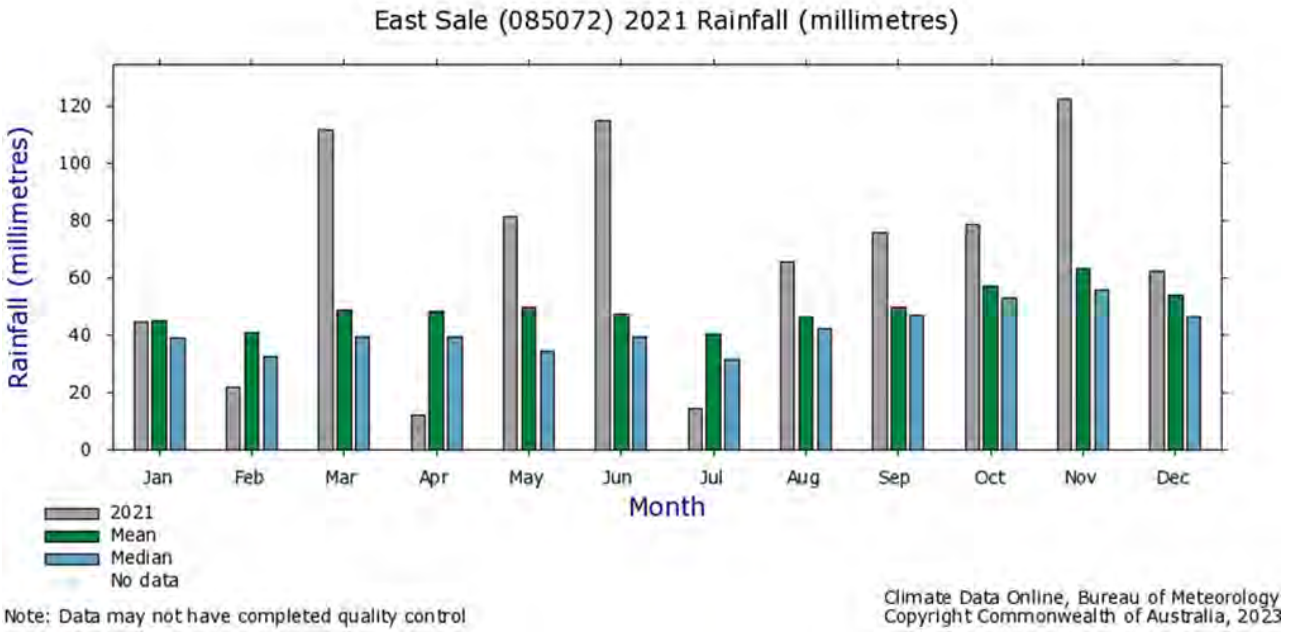

Figure 7-7 Mean monthly rainfall data (Station 085072) and rainfall data per month for 2021 (BoM, 2023)

Figure 7-8 Mean monthly rainfall data (Station 085072) and rainfall data per month for 2022 (BoM, 2023)

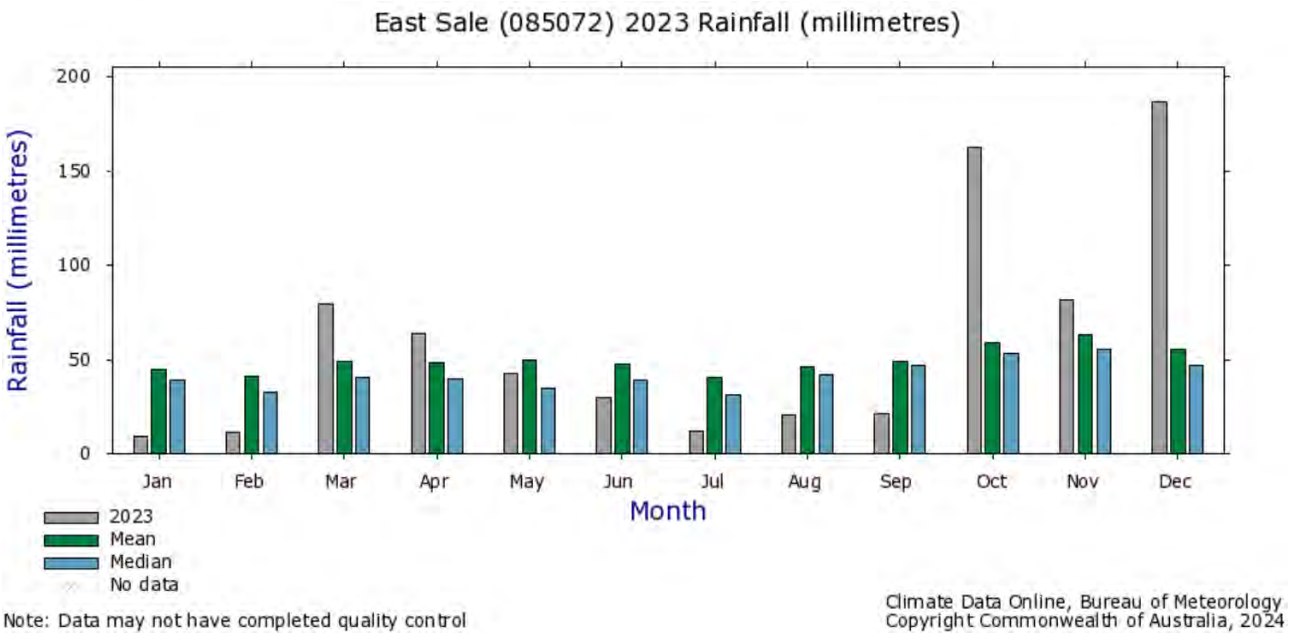

Figure 7-9 Mean monthly rainfall data (Station 085072) and rainfall data per month for 2023 (BoM, 2024)

7.2.3 Laboratory Results

The results of laboratory analysis have been compared against adopted assessment criteria, and are presented in Table B2b, Appendix B and summarised in Table 7-11 to Table 7-17 below. PFOS+PFHxS concentrations are mapped in Figures 8A-F, Appendix A.

Laboratory reports are included in the November 2023 (E13) Factual Report presented in Appendix D.

7.2.3.1 *Offsite Drain (North-west Corner of Site)*

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-11. PFOS+PFHxS concentration ranges of locations within the Offsite Drain are presented in Figures 8A-F in Appendix A.

Table 7-11 Offsite Drain (North-west Corner of Site) - Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW049	PFOS+PFHxS	<0.01 – 1.67	<0.01
	PFOS	<0.01 – 0.94	<0.01
	PFOA	<0.002 – 0.03	<0.01
SW201	PFOS+PFHxS	3.24 – 17	NS
	PFOS	2.62 – 11.4	
	PFOA	0.04 – 0.27	
New maximum	New minimum	New exceedance	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-11 indicates:

- SW049 reported all PFAS concentrations below the LOR. A two order of magnitude decrease for PFOS+PFHxS concentrations and an order of magnitude decrease for PFOS were also reported compared to the previous event in November 2022 (E12).
- Sampling location SW201 could not be sampled during the November 2023 (E13) event due to the location being dry.

7.2.3.2 *Onsite Western Drainage Network*

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-12. PFOS+PFHxS concentration ranges of locations within the Onsite Western Drainage Network are presented in Figures 8A-F in Appendix A.

Table 7-12 Onsite Western Drainage Network - Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW203	PFOS+PFHxS	0.74 – 137[1]	8.78
	PFOS	0.5 – 33.6	6.40
	PFOA	<0.01 – 2.2[1]	0.07
SW206	PFOS+PFHxS	0.17 - 25.96	NS
	PFOS	0.08 – 22.9	
	PFOA	<0.01 – 0.4	
SW208	PFOS+PFHxS	0.08 - 4.61	NS
	PFOS	0.05 – 3.04	
	PFOA	<0.01 – 0.06	
SW217	PFOS+PFHxS	7.69 – 17.8	NS
	PFOS	5.81 – 9.77	
	PFOA	0.13 – 0.30	
SW222	PFOS+PFHxS	0.53[1] – 4.97	NS
	PFOS	0.3 – 2.89	
	PFOA	0.01 – 0.11	
SW223	PFOS+PFHxS	0.13 - 5.78	0.74
	PFOS	0.11 - 3.52	0.46

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
	PFOA	<0.01 – 0.12	0.01
SW366	PFOS+PFHxS	-	NS
	PFOS	-	
	PFOA	-	
SW227	PFOS+PFHxS	0.54 - 2.59	1.05[1]
	PFOS	0.33 - 1.72	0.72[1]
	PFOA	0.05 - 0.22	0.07
SW226	PFOS+PFHxS	4.29 – 63.7	NS
	PFOS	2.94 – 36.3	
	PFOA	0.07 – 1.09	
SW230	PFOS+PFHxS	0.44 – 3.3	0.66
	PFOS	0.29 – 1.62	0.42
	PFOA	<0.01 – 0.08	0.01
SW246	PFOS+PFHxS	0.59 – 1.48	1.58
	PFOS	0.35 – 0.93[1]	0.97
	PFOA	<0.01 – 0.03	0.04
SW252	PFOS+PFHxS	0.39 – 6.41[1]	0.77
	PFOS	0.26 – 3.92[1]	0.61[1]
	PFOA	<0.01 – 0.15[1]	0.01[1]
SW353	PFOS+PFHxS	3.94 – 16.8	NS
	PFOS	1.51 – 13	
	PFOA	0.11 – 0.21	
SW351	PFOS+PFHxS		0.93
	PFOS		0.70
	PFOA		0.02

New maximum	New minimum	New exceedance	First-time detection

Notes:

1. Duplicate/triplicate result adopted.

<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.

NS – Not sampled

Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-12 indicates:

- New maximums for PFOS, PFOA and PFOS+PFHxS concentrations were reported at SW246.
- Sampling locations SW206, SW208, SW217, SW222, SW226, SW353 and SW366 could not be sampled during the November 2023 (E13) event due to inaccessibility or locations being dry.
- All other reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.2.3.3 Onsite Eastern Drainage Network

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-13. PFOS+PFHxS concentration ranges of locations within the Onsite Eastern Drainage Network are presented in Figures 8A-F in Appendix A.

Table 7-13 Onsite Eastern Drainage Network – Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW209	PFOS+PFHxS	5.17 - 283	19.6[1]

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
	PFOS	4.7 - 255	15.2[1]
	PFOA	0.04 - 2.34	0.40[1]
SW216	PFOS+PFHxS	2.72 - 17.11	NS
	PFOS	1.59 - 14	
	PFOA	0.03 – 0.2	
SW231	PFOS+PFHxS	0.22 - 23.54	12.4
	PFOS	0.12 – 9.04	6.13
	PFOA	<0.01 – 0.28	0.18
SW233	PFOS+PFHxS	1.15 - 20.83	5.88
	PFOS	0.66 - 7.53	2.49
	PFOA	0.01 - 0.24	0.09
SW238	PFOS+PFHxS	1.38 - 12.36	4.38
	PFOS	1.00[1] - 4.1[1]	1.78
	PFOA	0.02 - 0.15	0.07
SW239	PFOS+PFHxS	0.48 - 16.83	19.3
	PFOS	0.34 – 12.7	13.8
	PFOA	<0.01 - 0.24	0.30
SW251	PFOS+PFHxS	0.16 – 12.8	9.45[1]
	PFOS	0.11 – 6.79	6.4[1]
	PFOA	<0.01 - 0.24	0.17[1]
SW256	PFOS+PFHxS	1.37 - 17.85	11.6
	PFOS	1.00 - 10.10	6.12
	PFOA	<0.01 - 0.30	0.26
SW257	PFOS+PFHxS	1.48 – 17.3[1]	11.0
	PFOS	0.97 - 12[1]	5.40
	PFOA	0.02 - 0.41[1]	0.26
SW258	PFOS+PFHxS	3.15 - 12.6	8.24[1]
	PFOS	1.67 - 7.57	4.8[1]
	PFOA	0.03 - 0.27	0.16[1]
New maximum	New minimum	New exceedance	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-13 indicates:

- New maximums for PFOS, PFOA and PFOS+PFHxS concentrations were reported at SW239.
- Sampling location SW216 could not be sampled during the November 2023 (E13) event due to the location being dry.
- All other reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.2.3.4 Offsite Inflow to The Heart Morass

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events for the Offsite inflow to The Heart Morass monitoring location is presented in Table 7-14. PFOS+PFHxS concentration ranges of locations within the Offsite Inflow to The Heart Morass are presented in Figures 8A-F in Appendix A.

Table 7-14 Offsite Inflow to The Heart Morass – Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW033	PFOS+PFHxS	1.2[1]– 8.53	9.87
	PFOS	0.76 – 3.61	6.74
	PFOA	0.02 - 0.22	0.17
New maximum	New minimum	New exceedance	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-14 indicates:

> New maximums for PFOS and PFOS+PFHxS concentrations were reported at SW033 in the November 2023 (E13) event.

> All reported concentrations were within one order of magnitude of the previous sampling event.

7.2.3.5 The Heart Morass Monitoring Area

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-15. PFOS+PFHxS concentration ranges of locations within The Heart Morass Monitoring Area are presented in Figures 8A-F in Appendix A.

Table 7-15 The Heart Morass Monitoring Area – Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW001	PFOS+PFHxS	0.16 – 2.23	0.29
	PFOS	0.09 – 2.00	0.25
	PFOA	<0.01 – 0.02	<0.01
SW002	PFOS+PFHxS	0.72[1] – 6.78	0.50
	PFOS	0.62 – 3.22	0.43
	PFOA	<0.01 – 0.17	<0.01
SW004	PFOS+PFHxS	0.466 – 3.15	1.49
	PFOS	0.314 – 2.59	1.00
	PFOA	<0.01 – 0.04	0.03
SW011	PFOS+PFHxS	0.08 - 0.472	0.10
	PFOS	0.06 - 0.282	0.07
	PFOA	<0.01 - 0.005	<0.01
SW014	PFOS+PFHxS	0.02 - 0.24	0.06
	PFOS	0.02 – 0.16	0.04
	PFOA	<0.002 - <0.01	<0.01
SW015	PFOS+PFHxS	0.14 – 0.83	0.05
	PFOS	0.04 – 0.28	0.03
	PFOA	<0.01 – 0.02	<0.01
SW016	PFOS+PFHxS	0.27 – 0.83	0.07
	PFOS	0.119 – 0.23	0.04
	PFOA	<0.01 – 0.03	<0.01
SW019	PFOS+PFHxS	<0.01 – 0.11	0.03
	PFOS	<0.01 – 0.09	0.03
	PFOA	<0.002 - <0.01	<0.01
SW030	PFOS+PFHxS	0.09 – 1.64	0.02

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
	PFOS	0.06 – 1.49	0.02
	PFOA	<0.01 – 0.01	<0.01
SW031	PFOS+PFHxS	<0.01 – 0.293	0.05
	PFOS	<0.01 – 0.128	0.03
	PFOA	<0.01 – 0.003	<0.01
SW032	PFOS+PFHxS	<0.01 – 0.64	0.05
	PFOS	<0.01 – 0.42	0.03
	PFOA	<0.002 - 0.01	<0.01
SW034	PFOS+PFHxS	0.09 – 2.73	0.23
	PFOS	0.07 – 2.42	0.20
	PFOA	<0.002 – 0.02	<0.01
SW035	PFOS+PFHxS	0.26 – 7.41	0.29
	PFOS	0.12 – 7.11	0.25
	PFOA	<0.01 – 0.02	<0.01
SW041	PFOS+PFHxS	0.20 – 4.69	0.76
	PFOS	0.39 – 3.60	0.57
	PFOA	<0.002 – 0.07	0.02
SW052	PFOS+PFHxS	0.603 – 15.2	0.44
	PFOS	0.293 – 13.9	0.33
	PFOA	0.009 – 0.09	<0.01
SW082	PFOS+PFHxS	0.04 – 0.22	0.04
	PFOS	<0.01 – 0.07	0.02
	PFOA	<0.01	<0.01
SW088	PFOS+PFHxS	0.07 – 10.1	0.46
	PFOS	0.04 – 9.74	0.43
	PFOA	<0.01 – 0.12	<0.01
SW089	PFOS+PFHxS	0.02 – 0.66	0.16
	PFOS	0.06 – 0.43	0.14
	PFOA	<0.01 – 0.01	<0.01
SW092	PFOS+PFHxS	<0.01 – 0.07	0.03
	PFOS	<0.01 – 0.06	0.03
	PFOA	<0.01	<0.01
SW277	PFOS+PFHxS	0.15 – 1.62	0.31
	PFOS	0.13 – 1.48	0.27
	PFOA	<0.01 – 0.02	<0.01
New maximum	New minimum	New exceedance	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-15 indicates:

> New minimums for PFOS and PFOS+PFHxS concentrations were reported at SW002, SW015, SW016 and SW030.

> New minimums for PFOA and PFOS+PFHxS concentrations were reported at SW052.

> All other reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.2.3.6 *Flooding River (inlet to The Heart Morass)*

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-16. PFOS+PFHxS concentration ranges of locations within Flood River are presented in Figures 8A-F in Appendix A.

Table 7-16 Flooding River (inlet to The Heart Morass) – Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW077	PFOS+PFHxS	<0.01 – 0.05	0.02
	PFOS	<0.01 – 0.05	0.02
	PFOA	<0.01 – 0.01	<0.01
New maximum	New minimum	New exceedance	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-16 indicates:

> There were no new minimums, maximums, exceedances or first-time detections reported in the November 2023 (E13) event for SW077. All reported concentrations were within one order of magnitude of the previous sampling event.

7.2.3.7 *Latrobe River*

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-17. PFOS+PFHxS concentration ranges of locations within Latrobe River are presented in Figures 8A-F in Appendix A.

Table 7-17 Latrobe River – Surface Water PFOS+PFHxS, PFOS and PFOA Concentrations (µg/L)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SW012	PFOS+PFHxS	<0.01 – 0.05	<0.01
	PFOS	<0.01 – 0.03	<0.01
	PFOA	<0.002 - <0.01	<0.01
SW080	PFOS+PFHxS	<0.01 – 0.03	<0.01
	PFOS	<0.01 – 0.01	<0.01
	PFOA	<0.01	<0.01
SW093	PFOS+PFHxS	<0.01 – 0.02	<0.01
	PFOS	<0.01 – 0.02	<0.01
	PFOA	<0.01	<0.01
New maximum	New minimum	New exceedance	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting. Any PFOS result above LOR is an exceedance of the adopted Ecological Criteria.
NS – Not sampled
Exceedances of all relevant criteria are shown in Tables B2a, B2b and B2c, Appendix B.

Review of Table 7-17 indicates:

> All sampling locations reported PFAS concentrations below the LOR.

7.3 Sediment

7.3.1 Summary of Field Observations

No significant changes to odour or sediment colour were identified during the November 2023 (E13) sampling event, with observations consistent across all events from 2021 to 2023.

Onsite sediments were typically silty clay or clayey silt, ranging from pale to dark brown. Occasional organic odours and trace gravel was observed. There was no staining.

Offsite sediments were typically silty clay, ranging from brown to dark brown. Notable observations included some slight black staining, slight organic and strong anaerobic odours, and the presence of organic matter in select locations.

Field observations are presented in Table B1c, Appendix B.

7.3.2 Laboratory Results

National assessment criteria have not been established for PFAS in sediment. Laboratory analysis results have been compared against historical results, presented in Table B2c, Appendix B and summarised in Table 7-18 to Table 7-22 below. Sediment PFOS+PFHxS concentrations are presented in Figures 9A-F, Appendix A.

7.3.2.1 *Offsite Drain (North-west Corner of Site)*

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-18. PFOS+PFHxS concentration ranges of locations within the Offsite Drain are presented in Figures 9A-F in Appendix A.

Table 7-18 Offsite Drain (North-west Corner of Site) – Sediment PFOS+PFHxS, PFOS and PFOA Concentrations (mg/kg)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SD049	PFOS+PFHxS	0.0004 – 0.0588	<0.0002
	PFOS	0.0015 – 0.052	<0.0002
	PFOA	<0.0002 – 0.0002	<0.0002
SD201	PFOS+PFHxS	0.0037 – 0.546	0.182
	PFOS	0.0169 – 0.525[1]	0.174
	PFOA	<0.0002 – 0.0023	0.0014
New maximum		New minimum	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting
NS – Not sampled

Review of Table 7-18 indicates:

- New minimums for PFOS and PFOS+PFHxS concentrations were reported at SD049 (below the LOR).
- All other reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.3.2.2 *Onsite Western Drainage Network*

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-19. PFOS+PFHxS concentration ranges of locations within the Onsite Western Drainage Network are presented in Figures 9A-F in Appendix A.

Table 7-19 Onsite Western Drainage Network – Sediment PFOS+PFHxS, PFOS and PFOA Concentrations (mg/kg)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SD206	PFOS+PFHxS	0.0016 - 0.2108	NS
	PFOS	0.0013 - 0.206	
	PFOA	<0.0002 – 0.0007	
SD208	PFOS+PFHxS	0.002 – 0.281[1]	NS
	PFOS	0.0017 – 0.23[1]	
	PFOA	<0.0002 - 0.0029[1]	
SD217	PFOS+PFHxS	0.211 – 1.04	1.13
	PFOS	0.162 – 1.00	1.08
	PFOA	0.0017 – 0.004	0.0032
SD223	PFOS+PFHxS	0.0085 – 0.151[1]	0.0307
	PFOS	0.008 – 0.13[1]	0.0272
	PFOA	<0.0002 - 0.0003	<0.0004
SD226	PFOS+PFHxS	0.194 - 0.8765	0.397
	PFOS	0.171 - 0.811	0.377
	PFOA	0.0007 - 0.005	0.0017
SD227	PFOS+PFHxS	0.002 - 0.0244	0.0042
	PFOS	0.002 - 0.0236	0.0040
	PFOA	<0.0002 – 0.0008	0.0007[1]

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SD230	PFOS+PFHxS	0.0088 – 0.119	0.0179[1]
	PFOS	0.0085 – 0.108	0.0170[1]
	PFOA	<0.0002 – 0.0014	<0.005
SD242	PFOS+PFHxS	0.0733 – 0.578	0.0702
	PFOS	0.0691 – 0.564	0.0682
	PFOA	<0.0002 – 0.0014	<0.005
SD246	PFOS+PFHxS	0.0374 – 0.1472	0.0831
	PFOS	0.0338 – 0.14[1]	0.0796
	PFOA	<0.0002 – 0.0027	0.0003
SD247	PFOS+PFHxS	0.0033 – 0.0534[1]	0.0095
	PFOS	0.0031 – 0.188[1]	0.0089
	PFOA	<0.0002 – 0.0003	<0.0002
SD249	PFOS+PFHxS	0.0043 – 0.0281	0.0223
	PFOS	0.0037 – 0.0266	0.0215
	PFOA	<0.0002	<0.0002

New maximum | New minimum | First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting
NS – Not sampled

Review of Table 7-19 indicates:

> New minimums for PFOS and PFOS+PFHxS concentrations were reported at SD242.

> New maximums for PFOS and PFOS+PFHxS concentrations were reported at SD217.

> Sampling locations SD206 and SD208 could not be sampled in November 2023 (E13) event due to inaccessibility or lack of sampling media.

> All other reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.3.2.3 Onsite Eastern Drainage Network

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-20. PFOS+PFHxS concentration ranges of locations within the Onsite Eastern Drainage Network are presented in Figures 9A-F in Appendix A.

Table 7-20 Onsite Eastern Drainage Network – Sediment PFOS+PFHxS, PFOS and PFOA Concentrations (mg/kg)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SD209	PFOS+PFHxS	0.119 – 21.7	1.09
	PFOS	0.111 – 21.0	0.975
	PFOA	0.0007 – 0.106	0.0143
SD216	PFOS+PFHxS	0.0234 – 0.153	NS
	PFOS	0.0217– 0.146	
	PFOA	<0.0002 - 0.0004	
SD231	PFOS+PFHxS	0.0134 – 0.484	0.0680
	PFOS	0.0122 – 0.378	0.0575
	PFOA	<0.0002 – 0.004	0.0003
SD233	PFOS+PFHxS	0.0308 – 0.2209	0.0533
	PFOS	0.0155 – 0.1500	0.0486

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
	PFOA	<0.0002 – 0.0023	<0.0002
SD239	PFOS+PFHxS	0.024 – 3.39	0.0861
	PFOS	0.0225 – 2.77	0.0789
	PFOA	<0.0002 – 0.298	0.0006
SD251	PFOS+PFHxS	0.0041 – 0.13	0.0418
	PFOS	0.0024 – 0.124	0.0383
	PFOA	<0.0002 – 0.0004	0.0002
SD256	PFOS+PFHxS	0.0066 – 1.38	0.0626
	PFOS	0.0011 – 1.33	0.0600
	PFOA	<0.0002 – 0.0087	0.0003
SD257	PFOS+PFHxS	0.0159 – 0.3338	0.0793
	PFOS	0.0156 – 0.2630	0.0766
	PFOA	<0.0002 – 0.0033	<0.0002
SD258	PFOS+PFHxS	0.0363 – 0.182	0.0938[1]
	PFOS	0.0355 – 0.178	0.0881
	PFOA	<0.0002 – 0.001	0.0004[1]
SD259	PFOS+PFHxS	0.0119 – 0.0966	0.076[1]
	PFOS	0.0116 – 0.0930	0.076[1]
	PFOA	<0.0002 – 0.0004	<0.005
SD260	PFOS+PFHxS	0.0032 – 0.234	0.0838
	PFOS	0.0026 – 0.226	0.0762
	PFOA	<0.0002 – 0.0006	0.0006
New maximum		New minimum	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting
NS – Not sampled

Review of Table 7-20 indicates:

> Sampling location SD216 could not be sampled during the November 2023 (E13) event due to insufficient sampling material.

> There were no new minimums, maximums or first-time detections reported in the November 2023 (E13) event. All reported concentrations were within one order of magnitude of the previous sampling event.

7.3.2.4 Offsite Drain Inflow to The Heart Morass

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-21. PFOS+PFHxS concentration ranges of locations within the Offsite Drain Inflow to The Heart Morass are presented in Figures 9A-F in Appendix A.

Table 7-21 Offsite Drain Inflow to The Heart Morass – Sediment PFOS+PFHxS, PFOS and PFOA Concentrations (mg/kg)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SD033	PFOS+PFHxS	0.0047 – 0.0993	0.0415
	PFOS	0.0034 - 0.0909	0.0379
	PFOA	<0.0002 – 0.0004	<0.0002
New maximum		New minimum	First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting

NS – Not sampled

Review of Table 7-21 indicates:

> There were no new minimums, maximums or first-time detections reported in the November 2023 (E13) event for SD033. All reported concentrations were within one order of magnitude of the previous sampling event.

7.3.2.5 The Heart Morass Monitoring Area

A summary of the PFOS, PFOA and PFOS+PFHxS concentrations for the reporting period and the concentration range across all monitoring events are presented in Table 7-22. PFOS+PFHxS concentration ranges of locations within The Heart Morass Monitoring Area are presented in Figures 9A-F in Appendix A.

Table 7-22 The Heart Morass Monitoring Area – Sediment PFOS+PFHxS, PFOS and PFOA Concentrations (mg/kg)

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
SD001	PFOS+PFHxS	0.0226 – 0.1308	0.0140
	PFOS	0.0218 – 0.123	0.0131
	PFOA	<0.0002 – 0.001	<0.0002
SD011	PFOS+PFHxS	0.0084 – 0.0707	0.0187
	PFOS	0.0078 – 0.0678	0.0150
	PFOA	<0.0002	0.0003
SD014	PFOS+PFHxS	0.0028 – 0.088	0.0639
	PFOS	0.0028 – 0.0716	0.0596
	PFOA	<0.0002 – 0.0009	0.0004
SD015	PFOS+PFHxS	0.0048 – 0.0203	0.0098
	PFOS	0.0036 – 0.0160	0.0066
	PFOA	<0.0002 - 0.0004	0.0002
SD016	PFOS+PFHxS	0.0221[1] – 0.63	0.0976
	PFOS	0.019[1] – 0.618	0.0920
	PFOA	<0.0002 – 0.0008	0.0004
SD019	PFOS+PFHxS	0.0017 – 0.0497	0.0009
	PFOS	0.0017 – 0.0469	0.0009
	PFOA	<0.0002 – 0.0003	<0.0002
SD030	PFOS+PFHxS	0.02 – 0.955	NS
	PFOS	0.0149 – 0.870	
	PFOA	<0.0002 – 0.0024	
SD031	PFOS+PFHxS	0.0008 – 0.0247	0.0027
	PFOS	<0.005 – 0.0210	0.0014
	PFOA	<0.0002 - 0.0004	<0.0002
SD032	PFOS+PFHxS	0.0036 – 0.173	0.0040
	PFOS	0.003 – 0.154	0.0035
	PFOA	<0.0002 – 0.0016	<0.0002
SD034	PFOS+PFHxS	0.0291 – 0.896	0.0245
	PFOS	0.0285 – 0.878	0.0212
	PFOA	<0.005 – 0.0023	0.0004
SD035	PFOS+PFHxS	0.0355 – 0.151	0.105
	PFOS	0.0342 – 0.150	0.101
	PFOA	<0.0002 - 0.0008[1]	0.0004
SD041	PFOS+PFHxS	0.0071 – 0.505	0.0269
	PFOS	0.0046 – 0.498	0.0139

Location ID	Analyte	Historical Concentration Range	(E13) November 2023
	PFOA	<0.0002 – 0.0015	0.0007
SD052	PFOS+PFHxS	0.0224 – 2.44	0.240
	PFOS	0.0107 – 2.42	0.221
	PFOA	0.0014 – 0.0031	0.0024
SD082	PFOS+PFHxS	0.002 – 0.0183	0.0006
	PFOS	0.0008 – 0.0159	<0.0002
	PFOA	<0.0002 - 0.0002	<0.0002
SD088	PFOS+PFHxS	0.0164 – 0.576	0.0174
	PFOS	0.0144 – 0.567	0.0166
	PFOA	0.0003 – 0.0017	<0.0002
SD089	PFOS+PFHxS	0.0048 – 0.328	0.0156
	PFOS	0.0038 – 0.321	0.0126
	PFOA	<0.0002 - 0.0006	<0.0002
SD268	PFOS+PFHxS	0.0052 – 2.529	1.62
	PFOS	0.0049 – 2.500[1]	1.60
	PFOA	<0.0002 - 0.0021	0.0049
SD270	PFOS+PFHxS	0.0319 – 1.3095	0.640
	PFOS	0.0307 – 1.3[1]	0.629
	PFOA	<0.0002 – 0.009	0.0025
SD276	PFOS+PFHxS	0.0312 – 0.679	0.0255
	PFOS	0.0282 – 0.656	0.0245
	PFOA	<0.0002 - 0.0017	0.0004

New maximum | New minimum | First-time detection

Notes:
1. Duplicate/triplicate result adopted.
<0.01 – Limit of Reporting
NS – Not sampled

Review of Table 7-22 indicates:

> A first-time detection just above the LOR was reported for PFOA concentrations at SD011 (0.0003 mg/kg).

> New minimums for PFOS and PFOS+PFHxS concentrations were reported at SD001, SD019, SD034, SD082 and SD276.

> A new minimum for PFOA concentrations was reported at SD088 (below the LOR).

> All other reported concentrations for each respective location were within the historical range and within one order of magnitude of the previous sampling results.

7.4 Summary

A summary of the maximum PFOS+PFHxS concentrations historically recorded, and the maximum concentrations recorded during the 2023 monitoring period are presented in Table 7-23 for each media assessed and investigation area.

Table 7-23 Maximum detected PFOS+PFHxS concentrations

Investigation Area	Phase	PFOS+PFHxS Maximums		
		Groundwater (µg/L)	Surface Water (µg/L)	Sediment (mg/kg)
North-west Area [MEOMS]	Historical	3,700 (MW306)	-	-
	2023	1,570 (MW306)	-	-
Central Area [Former AFFF Testing Area]	Historical	636 (MW738)	-	-
	2023	229 (MW738)	-	-
Central/Eastern Area - Current Fire Station and Grassed Area Near Runway	Historical	12,700 (MW719)	-	-
	2023	6,150 (MW719)	-	-
Southern Area – Former Fire Training Areas and Closed Waste Disposal Site	Historical	10,200 (MW201)	-	-
	2023	7,540 (MW201)	-	-
South-west Area – Lake Edward	Historical	28.84 (MW325)	-	-
	2023	6.81 (MW325)	-	-
Remaining Offsite	Historical	1.72 (MW304)	-	-
	2023	1.83 (MW310)	-	-
Offsite Drain	Historical	-	17 (SW201)	0.546 (SD201)
	2023	-	<LOR (SW049)[1]	0.182 (SD201)
Onsite Western Drainage Network	Historical	-	137 (SW203)	1.04 (SD217)
	2023	-	8.78 (SW203)	1.13 (SD217)
Onsite Eastern Drainage Network	Historical	-	283 (SW209)	21.7 (SD209)
	2023	-	19.6[2] (SW209)	1.09 (SD209)
Offsite Drain Inflow to The Heart Morass	Historical	-	8.53 (SW033)	0.099 (SD033)
	2023	-	9.87 (SW033)	0.0415 (SD033)
The Heart Morass	Historical	-	15.2 (SW052)	2.529 (SD268)
	2023	-	1.49 (SW004)	1.62 (SD268)
Flooding River	Historical	-	0.05 (SW077)	-
	2023	-	0.02 (SW077)	-
Latrobe River	Historical	-	0.05 (SW012)	-
	2023	-	<LOR	-

Notes:
1. SW201 was not sampled in 2023 as it was dry.
2. Duplicate/triplicate result adopted.

It is noted that 2023 concentration maximums are of the same order of magnitude as all historical maximums with the following exceptions:

- Onsite Western Drainage Network: the maximum surface water concentration of 8.78 µg/L (SW203) was an order of magnitude lower than the historical maximum of 137 µg/L (SW203).
- Onsite Eastern Drainage Network: the maximum surface water concentration of 19.6 µg/L (SW209) was an order of magnitude lower than the historical maximum of 283 µg/L (SW209). The maximum sediment

concentration of 1.09 µg/L (SD209) was an order of magnitude lower than the historical maximum of 21.7 µg/L (SD209).

- The Heart Morass: the maximum surface water concentration of 1.49 µg/L (SW004) was an order of magnitude lower than the historical maximum of 15.2 µg/L (SW052).

8 Interpretive Analysis

This section discusses the results of the one monitoring event in 2023 in the context of observed trends in concentrations or plume migration patterns by comparing with historical monitoring data. Data was reviewed and observed from a qualitative perspective, based on time-series plots and results, presented in Section 7. Further quantitative trend analysis was assessed (using Mann-Kendall analysis) and was calculated for each groundwater monitoring location with sufficient temporal data (i.e. 8-10 sampling events; Department of Defence, 2021). Mann-Kendall linear trend analysis results for PFOS+PFHxS, PFOS and PFOA are provided in Section 8.1.2 and Section 8.2.2 and detailed linear trend analysis reports are provided in Appendix C.

8.1 Groundwater

8.1.1 Changes in the Groundwater Flow Regime

Throughout the OMP monitoring events, no changes in the overall groundwater horizontal flow regime over time has been observed. Groundwater has consistently flowed in a south-easterly direction towards The Heart Morass and Latrobe River.

Near the southern border of the Site, groundwater elevations in the shallow Upper Alluvium and intermediate Lower Alluvium aquifer monitoring wells have periodically been below or at sea level, as shown in the hydrographs for key wells MW707, MW714, MW741, MW316 and MW735 presented in Figure 8-1. It is unlikely that groundwater levels in these wells along the southern boundary would naturally drop below sea level at this distance from the shoreline. Irrigation bores are reported to be present between the southern boundary of the Site and The Heart Morass, and based on discussions with the Offsite landowner, groundwater is being extracted from at least one bore (MW319) located just off the southern boundary of the Site for irrigation. Therefore, it is considered likely that periodic pumping throughout the year from this irrigation bore may be the cause of the measured groundwater elevations being below sea level. The Interpretive PFAS Mass Assessment (Senversa, 2023b) presented further information supporting this occurrence, which is also reflected in the data logger data for DL09 + DL13 (Section 7.2.2.3). Section 8.1.2.6 provides further narrative on potential impact to PFAS movements in this area.

Increased regional rainfall between 2021 and 2023 is likely to have resulted in higher overall groundwater relative water levels (mean elevation of upper alluvium aquifers wells in 2020 was 1.615 mAHD, increased in 2021 to 2.197 mAHD, increased in 2022 to 2.788 mAHD and consistent in 2023 at 2.717 mAHD). These locations along the southern Site boundary have consistently measured above sea level since August 2021 (E7). Investigations by the LC also suggest periodic pumping for irrigation purposes south of the Site have influenced the water elevations in these bores (Senversa, 2023b).

Below sea level observations were most apparent during the 2020 OMP and pre-OMP monitoring events. During 2021, groundwater relative water levels below AHD only occurred at MW714 and MW741, primarily during summer and early autumn. With increased regional rainfall between 2021 and 2023, it is likely that overall pumping requirements were also minimised, contributing to observed increases in groundwater elevations.

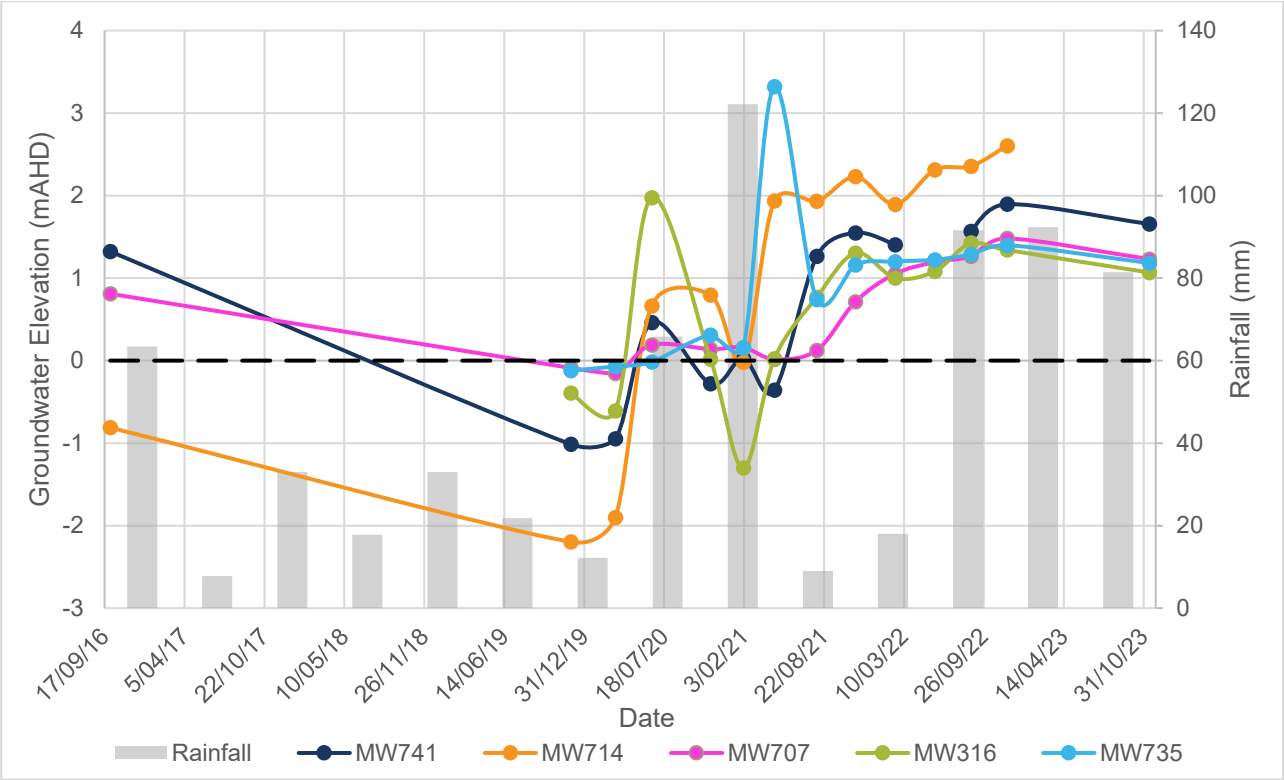

Figure 8-1 MW707 (Upper Alluvium Aquifer Well), MW714 (Upper Alluvium Aquifer Well), MW741 (Lower Alluvium Aquifer Well), MW316 (Upper Alluvium Aquifer Well) and MW735 (Upper Alluvium Aquifer Well) Hydrograph, plotted with mean monthly rainfall. Dashed black line is 'sea-level' (0.0 mAHD)

8.1.2 PFAS Time-Series & Linear Trend Analysis

8.1.2.1 PFAS Time-Series Summary

Groundwater PFAS concentrations from 2016 to the latest sampling event in November 2023 (E13) are presented in Figures 7A to 7F, Appendix A. The majority of groundwater monitoring locations reported decreasing, stable or no clear trend for PFOS, PFOA or PFOS+PFHxS concentrations. Possibly increasing or increasing trends for one or more of these analytes were reported at:

North-west Source Area:

- North-west boundary (MW733 and MW734)
- Grassed area near MEOMS (Source ID 14) (MW306)
- MEOMS operational areas (Source ID 05) (MW726)
- Grassed area near MEOMS adjacent to runway (Source ID 16) (MW737)

Central (General) Source Area

- Former AFFF Testing Area (Source ID 11) (MW729 and MW738)

Southern Source Area

- Former fire training area (Source ID 08 and 09) (MW202, MW323, MW324 and MW616)
- Former waste burial (Source ID 07) (MW626, MW627, MW705 and MW711)
- Near Eastern Main Drain (MW702, MW739 and MW741)

Remaining Offsite Wells

- South-west of Site (MW008 and MW009)
- East of Site (MW016)
- Near Eastern Main Drain (MW310, MW318 and POT042)

8.1.2.2 Mann-Kendall Trend Analysis Overview

Mann-Kendall linear trend analyses are to be read in conjunction with the associated confidence limit and spatial location of the monitoring locations (per respective Onsite source area or grouping of locations if not associated with a specific source area). The overall plume stability condition can then be characterised by interpreting the linear concentration trends at individual locations and plume length vs time (T.Chambers,*et.al.*, 2022).

Linear trends were assessed using Open UCL (T.Chambers,*et.al.*, 2022) and a minimum of eight results per monitoring location were required to calculate each trend (i.e. increasing, stable, decreasing and no clear trend), using a 95% confidence limit.

The Mann-Kendall linear trend analysis relies on several statistical metrics; Mann-Kendall statistic (S), p-value, which is associated with S and the coefficient of variation (CoV) (T.Chambers,*et.al.*, 2022). The relationship of these metrics to define a linear trend are:

- If S > 0 and p <0.05 “Increasing” trend.
- If S < 0 and p <0.05 “Decreasing” trend.
- If S > 0 and p <0.1 “Possibly Increasing” trend.
- If S < 0 and p <0.1 “Possibly Decreasing” trend.
- If S > 0 AND p >0.1 “No Clear Trend”.
- If S <= 0 AND p >0.1 and CoV >= 1 “No Clear Trend”.
- If p > 0.1 and CoV < 1 “Stable” trend.

The following assumptions were considered (T.Chambers,*et.al.*, 2022):

- Data wasn’t collected seasonally, or no seasonality exists. For example, seasonality wasn’t considered present if only a small fraction of analytes or locations exhibited a linear regression R2 >0.7 (i.e. a majority rules basis was applied).
- The data has no covariates, meaning no additional variables impacted the data set. From the current data, the only variables considered were time, PFAS concentrations and standing water level elevations, the latter being addressed in the point above.
- There was only one data point per monitoring round.
- The highest value of the primary, duplicate and split was used.
- Assumption of independence, meaning observations were not serially correlated over time.

8.1.2.3 Testing the Mann-Kendall Assumption - Seasonality

A pre-processing step was previously performed in the consolidated 2021-2022 OMR (Cardno, 2024a) to confirm if there was a relationship between PFAS concentrations (per analyte) and standing water levels (SWL) (mAHD). This was performed using the Pearson correlation coefficient (R^2) analysis (linear correlation) to test the Mann-Kendall assumption that no seasonality was present.

Analytes with an R^2 >0.7 were considered seasonally affected (SWL fluctuations correlated with PFAS concentration fluctuations), and an R^2 <0.7 was not considered to be seasonally affected (SWL fluctuations did not correlate with PFAS concentration fluctuations).

Analytical results from wells located in the north-west source area (MEOMS) was used and was assumed to be sufficient coverage to represent the overall Site conditions. Given the low percentage of locations per analyte exhibiting seasonal trends (R^2>0.7), the assumption that seasonality was not present was met and the Mann-Kendall analysis was able to proceed. For further details of the seasonality assessment, refer to *PFAS Ongoing Monitoring Report (2021-2022)* (Cardno, 2024a). These findings are considered to be valid for the 2023 ongoing monitoring data.

8.1.2.4 North-west Area - Fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03) former fire station (Source ID 04) and chemical storage area (Source ID 05) [MEOMS]

Results of Mann-Kendall analysis for groundwater monitoring wells targeting in and around the MEOMS source area are presented in Table 8-1 below. Mann-Kendall analysis outputs are presented in Appendix C.

Table 8-1 Mann-Kendall Linear Trend Analysis – North-west Area - Fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03) former fire station (Source ID 04) and chemical storage area (Source ID 05) [MEOMS]

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW733	Upper Alluvium	**Increasing**	**Increasing**	No Clear Trend
MW734	Upper Alluvium	*Decreasing*	**Increasing**	**Possibly Increasing**
MW306	Upper Alluvium	*Decreasing*	**Increasing**	No Clear Trend
MW607	Upper Alluvium	Stable	*Decreasing*	*Possibly Decreasing*
MW609	Upper Alluvium	Stable	No Clear Trend	*Decreasing*
MW726	Upper Alluvium	**Increasing**	**Increasing**	**Increasing**
MW326	Upper Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW612	Upper Alluvium	Stable	Stable	Stable
MW724	Upper Alluvium	No Clear Trend	Stable	No Clear Trend
MW725	Upper Alluvium	*Decreasing*	*Decreasing*	*Decreasing*
MW728	Upper Alluvium	No Clear Trend	*Decreasing*	No Clear Trend
MW737	Haunted Hills Aquifer	No Clear Trend	**Increasing**	**Increasing**

Note: 95% Confidence Limits were adopted. Some wells installed in the Upper and Lower Alluvium and Haunted Hills were not able to be assessed due to insufficient data points.

Review of Table 7-3 and Table 8-1 indicated the following:

- For November 2023, the highest PFOS+PFHxS concentration in this monitoring area was reported at MW306 (1,570 µg/L), directly located in the grassed area near MEOMS (Source ID 14). This grassed area is prone to becoming inundated with surface runoff from the MEOMS area, potentially acting as a recharge location. Mann-Kendall trend analysis (as per Table 8-1) for MW306 reported a decreasing trend for PFOA, and an increasing trend for PFOS. However, the latest reported PFOS concentrations in E13 (958 µg/L) remained within historical range, with the historical maximum (2,210 µg/L) reported in November 2021 (E7). No clear trend was determined for PFOS+PFHxS, and November 2023 concentrations (1,570 µg/L) remain within historical range and is approximately 50% of the historical maximum (3,700 µg/L) reported in February 2022.
- The next most significant PFOS+PFHxS concentrations were reported at locations in the vicinity of MW306 – at MW734 (215 µg/L), MW726 (117 µg/L) and MW315 (218 µg/L). These wells are located within the operational MEOMS area (Source ID 02) and are either immediately downgradient or cross-gradient of MW306. Whilst MW734 and MW726 continue to report an overall “increasing” trend for PFOS and “increasing” or “possibly increasing” trends for PFOS+PFHxS, no new maximums were reported in November 2023 for these three wells. This may be a result of increasing trends occurring in earlier monitoring events in the OMP, but concentrations have since stabilised. PFOS+PFHxS concentrations within the Upper Alluvium at locations outside of the general MEOMS area are less than 20 µg/L and are reporting either stable, decreasing or no clear trends. MW725, located further downgradient of the MEOMS area, reported new minimums and decreasing trends for all three key PFAS analytes.
- Overall, no new maximums were reported for any wells screened within the Upper Alluvium within the north-west area, indicating that all results were within historical ranges.
- There are no wells screened within the Lower Alluvium aquifer at MEOMS, or down-hydraulic-gradient, but one well screened within the deeper Haunted Hills aquifer was impacted by PFAS:
  - MW737 reported a new maximum for PFOS+PFHxS concentrations of 1.48 µg/L in the latest monitoring event in November 2023 (E13), which was one order of magnitude lower than historical results (E1 to E12) reported for nearby Upper Alluvium aquifer well MW607. Sampling during the DSI (October 2016) reported results below LOR, and have gradually increased over the OMP, with an overall increasing trend observed (as per Table 8-1). This suggest PFAS impacts are continuing to vertically migrate into the deeper aquifer. However, due to the magnitude of concentrations reported and the distance of MW737 to the Site boundary downgradient, this trend does not indicate a change to the risk profile from the Human Health and Ecological Risk Assessment (HHERA) (Senversa, 2018a).

8.1.2.5 Central Area – Former AFFF Foam and Equipment Testing Area (Source ID 11)

Results of Mann-Kendall analysis for groundwater monitoring wells located in the Central (General) Area targeting the Former AFFF Testing Area (Source ID 11) are presented in Table 8-2. Mann-Kendall analysis outputs are presented in Appendix C.

Table 8-2 Mann-Kendall Linear Trend Analysis – Central Area – Former AFFF Foam and Equipment Testing Area (Source ID 11)

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW738	Upper Alluvium	**Increasing**	No Clear Trend	No Clear Trend
MW729	Haunted Hills	**Increasing**	**Increasing**	**Increasing**
MW636	Upper Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW714	Upper Alluvium	N/A	No Clear Trend	No Clear Trend
MW712	Upper Alluvium	N/A	No Clear Trend	No Clear Trend
MW741	Lower Alluvium	N/A	No Clear Trend	**Increasing**
MW707	Upper Alluvium	Stable	*Decreasing*	*Decreasing*

Note: 95% Confidence Limits were adopted; N/A (not applicable); Some Upper Alluvium locations were not able to be assessed due to insufficient data points.

Review of Table 7-4 and Table 8-2 indicated the following:

- The highest PFAS concentrations in the latest sampling event (E13) at this source area were reported at nested wells MW738 (229 µg/L; Upper Alluvium aquifer) and MW729 (13.8 µg/L; Haunted Hills aquifer), located in grassed areas immediately adjacent to the Former AFFF Testing Area (Source ID 11). As noted in Section 6, the Former AFFF Testing Area (Source ID 11) is one of two main source areas contributing to Offsite mass flux. Whilst November 2023 (E13) results for both locations were reported within historical range, an overall increasing trend for PFOA was observed for MW738 whilst increasing trends for all three key PFAS analytes were observed for MW729. These trends suggest that the Former AFFF Testing Area (Source ID 11) is continuing to act as a source of PFAS for nearby shallow groundwater, with PFAS impacts also continuing to vertically migrate into the deep aquifer. The fate of the PFAS plume is not fully understood due to the absence of any monitoring wells immediately downgradient of this area, with the nearest downgradient wells nearly 900 m away (MW713 and MW615), both of which have also been removed[2] in the latest revision of the OMP (Senversa, 2023a). Additionally, there are no wells installed within the Lower Alluvium near the Former AFFF Testing Area (Source ID 11), which is a minor data gap considering that the majority of Offsite mass flux through groundwater is via the Lower Alluvium aquifer. However, the extent of PFAS moving Offsite are likely to be detected by the network of monitoring wells located along the southern and south-eastern Site boundaries.
- MW636 is located downgradient of the Current Fire Training Area (Source ID 13) along the south-western Site boundary. PFAS impacts at MW636 are potentially associated with an airplane crash and fire training activities at the Current Fire Training Area (Source ID 13). PFAS impacts were first detected in November 2021 (E8), with concentrations reported above Drinking Water Criteria consistently since, however, no clear trends have been observed. PFAS impacts are currently delineated to below Drinking Water Criteria by hydraulically downgradient wells MW714 and MW712.
- MW714, MW712 and MW707 are located downgradient along the southern Site boundary along the Western Main Drain and all screened in the Upper Alluvium aquifer. MW714 reported PFOS+PFHxS concentrations below Drinking Water Criteria in November 2023, whilst MW712 reported all three key PFAS analytes below LOR. MW707, located further east, reported PFOS+PFHxS above Recreational Water Criteria (3.14 µg/L). However, a decreasing trend has been observed for both PFOS and PFOS+PFHxS concentrations at MW707, with November 2023 PFOS+PFHxS concentrations being approximately 50% of pre-OMP concentrations.
- MW741, screened in the Lower Alluvium aquifer, is located adjacent to MW712 (Upper Alluvium). PFOS+PFHxS concentrations at MW741 have reported one order of magnitude higher than MW712 in the three latest monitoring events (E11, E12 and E13), and an increasing trend has also been observed, suggesting impacts are sourced from the Lower Alluvium aquifer upgradient. November 2023 concentrations are within historical range. Impacts at MW741 are inferred to migrate Offsite, however, is considered to be a minor contributor to Offsite mass flux within groundwater (Senversa, 2023b). Additionally, no active extractive wells are known to be directly downgradient of MW741, although groundwater from MW741 is likely to flow towards MW319 during periods of active extraction (Senversa,

[2] Reasoning provided in PFAS Management Area Plan – OMP Review Report (Senversa, 2022).

2023b). It is possible that migration of PFAS impacts from MW741 and other nearby wells during periods of groundwater extraction are contributing to the sporadic detection of PFAS at MW319.

> All locations in the Central Area reported PFAS concentrations within the historical range. Whilst some increasing trends were observed near the AFFF testing area (Source ID 11), the majority of other locations reported decreasing, stable or no clear trends.

8.1.2.6 Central/Eastern Area - Current Fire Station (Source ID 06) and Grassed Area Near Runway (Source ID 16)

Results of Mann-Kendall analysis for groundwater monitoring wells located in the Central/Eastern Area targeting the current fire station (Source ID 06) are presented in Table 8-3. Mann-Kendall analysis outputs are presented in Appendix C.

Table 8-3 Mann-Kendall Linear Trend Analysis – Central/Eastern Area – Current Fire Station (Source ID 06) and Grassed Area Near Runway (Source ID 16)

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW720	Upper Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW719	Upper Alluvium	Stable	*Decreasing*	*Decreasing*
MW730	Upper Alluvium	Stable	No Clear Trend	*Decreasing*
MW716	Upper Alluvium	No Clear Trend	*Decreasing*	*Decreasing*

Note: 95% Confidence Limits were adopted; Some locations were not able to be assessed due to insufficient data points.

Review of Table 7-5 and Table 8-3 indicated the following:

> MW719 and MW720 both reported concentrations in the latest monitoring event within historical range. A decreasing trend is observed for PFOS and PFOS+PFHxS for MW719, whilst no clear trend was observed for MW720 for all three key analytes. The Current Fire Station (Source ID 06) was identified as one of two major source areas contributing to Offsite mass flux (Senversa, 2023b). Groundwater results suggest direct migration of impacts from the source area into the shallow aquifer is decreasing over time. However, as highlighted in the Mass Flux report, PFAS from this source area may migrate into groundwater via drainage lines.

> MW730 located along the northern Site boundary along the runway reported a decreasing trend for PFOS+PFHxS, stable trend for PFOA and no clear trend for PFOS. Although concentrations are relatively low compared to groundwater locations near site source areas (e.g. MW738 and MW729), concentrations reported in the latest monitoring event continue to exceed the adopted Drinking Water Criteria for PFOS+PFHxS. MW730 is located 1 km north-east and cross-gradient of the Current Fire Station (Source ID 06), the nearest known source area to MW730. PFAS concentrations are likely the result of a nearby airplane crash Offsite.

> MW716 is located approximately 1,500 m hydraulically downgradient from MW730, along the eastern Site boundary. PFOS+PFHxS concentrations are one order of magnitude lower at MW716 (0.11 µg/L) than at MW730 (1.67 µg/L), suggesting that there is either no obvious PFAS migration occurring along this portion of the eastern boundary of the Site or PFAS impacts are attenuating along the groundwater flow path. Pre-OMP sampling results at MW716 reported PFAS concentrations two orders of magnitude higher than the Drinking Water Criteria. However, since OMP sampling began in November 2019 (E1), concentrations have reduced by approximately two orders of magnitude, and a decreasing trend has been observed for both PFOS and PFOS+PFHxS. PFOS+PFHxS concentrations across the entire OMP monitoring period appear to fluctuate above and below the Drinking Water Criteria, with November 2023 concentrations slightly exceeding. Given the low concentration values and the decreasing trends of PFAS concentrations, groundwater in this portion of the Site does not pose a significant risk to Offsite receptors.

> The fate of the PFAS plume at MW719 and MW720 is not fully understood due to the absence of wells further south-east (downgradient), and the absence of wells screened in deeper aquifers associated with this source area. Therefore, the extent of PFAS impacts from this source area are not fully delineated. However, the extent of PFAS moving Offsite are likely to be detected by the network of monitoring wells located along the southern and south-eastern Site boundaries. PFAS concentrations at MW730 and MW716 do not pose a significant risk to Offsite receptors and are either stable or decreasing.

8.1.2.7 South-west Area – Lake Edward Area (Source ID 25)

Table 8-4 Mann-Kendall Linear Trend Analysis – South-west Area – Lake Edward Area (Source ID 25)

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW325	Upper Alluvium	Stable	No Clear Trend	Stable
MW603	Upper Alluvium	No Clear Trend	No Clear Trend	No Clear Trend

Note: 95% Confidence Limits were adopted; Some Upper Alluvium locations were not able to be assessed due to insufficient data points.

Review of Table 7-7 and Table 8-4 indicated the following:

- MW603 reported new maximums for PFOA, PFOS and PFOS+PFHxS in the November 2023 event, with PFOS+PFHxS concentrations (3.52 µg/L) approximately double that of the previous maximum reported in November 2019 (1.64 µg/L) and exceeding Recreational Water Criteria for the first time. PFOS concentrations also reported an order of magnitude increase compared to the previous event (August 2022). However, no clear concentration trends were reported for any of the three key analytes. MW603 is located 900 m south-south-east of the MEOMS and Chemical Storage Area (Source IDs 01, 02, 03 and 05) and is semi-downgradient. PFAS impacts may be derived from this upgradient source area, however, due to the absence of wells in between these areas, this is uncertain. Whilst MW603 is located on the Site boundary, MW636 is located downgradient of MW603 and can provide monitoring coverage.
- MW325 reported stable trends for PFOA and PFOS+PFHxS concentrations, with the November 2023 results consistent with historical ranges. PFAS impacts at MW325 are likely a direct result of fire training activities at the current fire training area (Source ID 13). MW325 is located directly adjacent to the current fire training area (Source ID 13). It is noted that there are no wells screened in the Lower Alluvium or Haunted Hills aquifer along the MW603-MW325-MW636-MW714 groundwater flow path and as such, represents a data gap. However, considering the magnitude of PFAS detections at MW714 (below Drinking Water Criteria), this data gap is likely to be negligible.

8.1.2.8 Southern Area - Former Fire Training Areas (Source ID 08 and 09) and Waste Burial Areas (Source ID 07)

Results of Mann-Kendall analysis for groundwater monitoring wells targeting the former fire training areas (Source ID 08 and 09) and waste burial areas (Source ID 07), including wells located upgradient from these source areas, are presented in Table 8-5. Mann-Kendall analysis outputs are presented in Appendix C.

Table 8-5 Mann-Kendall Linear Trend Analysis – Southern Area - Former Fire Training Areas (Source ID 08 and 09) and Closed Waste Disposal Site (Source ID 07)

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW616	Upper Alluvium	**Increasing**	No Clear Trend	No Clear Trend
MW201	Upper Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW202	Upper Alluvium	**Possibly Increasing**	No Clear Trend	**Possibly Increasing**
MW622	Upper Alluvium	No Clear Trend	Stable	Stable
MW617	Upper Alluvium	N/A	No Clear Trend	No Clear Trend
MW626	Upper Alluvium	**Increasing**	**Increasing**	**Increasing**
MW709	Upper Alluvium	No Clear Trend	Stable	Stable
MW627	Upper Alluvium	**Possibly Increasing**	**Possibly Increasing**	**Possibly Increasing**
MW628	Upper Alluvium	*Decreasing*	*Decreasing*	No Clear Trend
MW702	Upper Alluvium	No Clear Trend	**Possibly Increasing**	No Clear Trend
MW711	Upper Alluvium	Stable	No Clear Trend	**Increasing**
MW708	Upper Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW735	Upper Alluvium	Stable	No Clear Trend	*Possibly Decreasing*
MW715	Upper Alluvium	Stable	No Clear Trend	No Clear Trend
MW304	Upper Alluvium	No Clear Trend	Stable	Stable

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW323	Lower Alluvium	**Possibly Increasing**	**Possibly Increasing**	No Clear Trend
MW324	Lower Alluvium	**Increasing**	**Increasing**	**Increasing**
MW704	Lower Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW739	Lower Alluvium	**Increasing**	**Increasing**	**Increasing**
MW740	Lower Alluvium	Stable	Stable	Stable
MW701	Lower Alluvium	No Clear Trend	No Clear Trend	No Clear Trend
MW310	Lower Alluvium	**Increasing**	**Increasing**	**Increasing**
MW705	Haunted Hills	No Clear Trend	**Possibly Increasing**	**Increasing**
MW312	Haunted Hills	Stable	No Clear Trend	No Clear Trend

Note: 95% Confidence Limits were adopted; N/A (not applicable); Some Upper and Lower Alluvium locations were not able to be assessed due to insufficient data points.

Review of Table 7-6 and Table 8-5 indicate the following:

- PFOS+PFHxS concentrations at wells within the Upper Alluvium (shallow) aquifer associated with the Former Fire Training Areas (Source ID 08 and 09) and Former Waste Burial Area (Source ID 07) were all within historical ranges. The high PFAS concentrations around MW201 (7,540 µg/L), MW202 (874 µg/L) and MW622 (472 µg/L) indicate that this is the local PFAS plume centre, with concentrations attenuating to some extent downgradient. This is seen at Upper Alluvium wells directly south of the plume at MW617 (0.67 µg/L) and MW709 (10.9 µg/L), which is two to four orders of magnitude lower than the highest concentrations at MW201. Concentrations of PFOS+PFHxS at the Site boundary in this area exceed the Drinking Water Criteria and are as high as 15.6 µg/L (MW702). It is likely that some groundwater in the Upper Alluvium discharges to the Eastern Main Drain in this area, such as near MW702 (Senversa, 2023b), which may reduce the concentration and/or mass of PFAS migrating Offsite via shallow groundwater.
- Six locations within the Upper Alluvium have reported one or more increasing or possibly increasing trends: MW616, MW202, MW626, MW627, MW702 and MW711, of which two are located near the Site boundary. Seven locations screened in the same aquifer reported only stable trends or no clear trends: MW201, MW622, MW617, MW709, MW708, MW715 and MW304. Only MW628 (located on the edge of the source area) and MW735 (located further semi-downgradient to the south) reported one or more decreasing or possibly decreasing trends. Overall, PFAS is continuing to leach from the two source areas into the shallow aquifer and appears to exceed attenuation processes in some locations, resulting in increasing concentration trends. Horizontal/lateral migration of PFAS within the shallow aquifer in this area, whilst occurring, appears to be relatively constant during the 2023 monitoring period and in semi-equilibrium with attenuation processes, resulting in relatively stable concentrations downgradient of the source areas.
- Four locations within the Lower Alluvium have reported one or more increasing or possibly increasing trends: MW323, MW324, MW739 and MW310. Both MW323 and MW324 are located adjacent to MW201 and MW202, the local PFAS plume centre. MW739 is located adjacent to MW702 near the Site boundary and MW310 is also located near the Site boundary (near MW711). MW310 also reported new maximums for all three key analytes in November 2023. Based on the Interpretive PFAS Mass Assessment (Senversa, 2023b), MW739 is screened within an area of relatively high hydraulic conductivity (6.7 m/day on average) and PFAS-impacted groundwater from MW739 (Flow Tube B) is estimated to dominate the PFAS Offsite mass discharge via groundwater.
- Three locations screened in the same aquifer reported only stable trends or no clear trend: MW704, MW740 and MW701, whilst no locations reported decreasing trends. The increasing trends in the Lower Alluvium appear to mirror trends in the Upper Alluvium, indicating continued vertical and lateral migration of PFAS not only within the source area, but also in some areas downgradient near the Site boundary. Despite some increasing trends, it is noted that all Lower Alluvium wells in this area, with the exception of MW310, reported November 2023 results within their respective historical ranges.
- MW705, one of two wells screened in the Haunted Hills in this area, reported a new maximum for PFOS in November 2023 as well as an overall possibly increasing trend for PFOS and an increasing trend for PFOS+PFHxS. MW705 is located near the local PFAS plume centre and suggests continued vertical migration of PFAS impacts is also occurring into the Haunted Hills aquifer in this area. MW312, also screened in the Haunted Hills and located near the Site boundary, reported stable trends or no clear

trends and all results in November 2023 were below LOR. Whilst this is only one data point, it does suggest that PFAS impacts within the Haunted Hills are attenuating to some extent and concentrations are lower downgradient of the source areas.

> Overall, there is evidence of continued leaching of PFAS from the source areas into the shallow groundwater aquifer and vertical migration to the intermediate and deep aquifers. However, concentrations attenuate by one to two orders of magnitude as they move between aquifers, with concentrations in the deep aquifer approximately three to four orders of magnitude lower than in the shallow aquifer. Some increasing concentrations are observed within the shallow, intermediate and deep aquifers immediately south-east of the waste burial area (Source ID 07) and there is evidence of migration of PFAS Offsite here along both lateral and vertical axes. This is not yet seen further south along the southern Site boundary, however, this may be due to the distance between this area and the upgradient source areas. PFAS impacts Offsite have not been delineated.

8.1.2.9 Remaining Offsite Monitoring Wells

Results of Mann-Kendall analysis for groundwater monitoring wells located in Offsite areas to the south, east and south-east of the Site, are presented in Table 8-6. Mann-Kendall analysis outputs are presented in Appendix C.

Table 8-6 Mann-Kendall Linear Trend Analysis Using 95% Confidence Limits – Remaining Offsite Monitoring Wells

Location	Aquifer	PFOA Trend	PFOS Trend	PFOS+PFHxS Trend
MW015	Upper Alluvium	N/A	No Clear Trend	No Clear Trend
MW016	Upper Alluvium	N/A	**Increasing**	**Possibly Increasing**
MW316	Upper Alluvium	Stable	No Clear Trend	No Clear Trend
MW010	Lower Alluvium	N/A	No Clear Trend	No Clear Trend
MW008	Lower Alluvium	N/A	**Increasing**	**Increasing**
MW318	Lower Alluvium	Stable	**Possibly Increasing**	No Clear Trend
MW009	Haunted Hills	N/A	**Increasing**	**Possibly Increasing**
MW321	Haunted Hills	Stable	No Clear Trend	No Clear Trend
MW302	Point of Use	N/A	No Clear Trend	No Clear Trend
MW319	Point of Use	N/A	Stable	No Clear Trend
POT042	Point of Use	N/A	No Clear Trend	**Possibly Increasing**
POT051	Point of Use	N/A	No Clear Trend	No Clear Trend

Note: 95% Confidence Limits were adopted; N/A (not applicable); Some Upper Alluvium and Point of Use locations were not able to be assessed due to insufficient data points.

Review of Table 7-8 and Table 8-6 indicates the following:

> Multiple Offsite wells reported new maximums and exceedances of Drinking Water Criteria in the latest monitoring event.

> Co-located Upper Alluvium (shallow) aquifer wells MW015 and MW016 are located several hundred metres east of the Site, and both reported new maximums in the latest event. MW016 reported an increase for PFOS+PFHxS from 0.02 µg/L (E12) to 0.10 µg/L (E13), whilst MW015 reported a new maximum for PFOS at 0.08 µg/L and a new exceedance of Drinking Water Criteria for PFOS+PFHxS at 0.11 µg/L. Both wells reported similar concentrations, however, the origin of PFAS impacts in the area is unclear due to the lack of surrounding wells and the remote location of these wells from known source areas. MW015 did not report any increasing trends, however, MW016 reported increasing trends for PFOS and PFOS+PFHxS. Considering the absence of known Point of Use wells downgradient, the risk profile is unlikely to be affected.

> Co-located monitoring wells MW008 (Lower Alluvium aquifer) and MW009 (Haunted Hills aquifer) located south and downgradient of the Site also reported new maximums for PFOS and PFOS+PFHxS. These wells reported at least two times the previous maximum for PFOS+PFHxS in the latest event (E13); at MW008 from 0.11 µg/L (E12) to 0.25 µg/L (E13), and at MW009 from 0.15 µg/L (E12) to 0.79 µg/L (E13). Increasing trends are also reported for both locations. It is not immediately apparent the source of these PFAS impacts, however, it may be derived from Site which is semi-upgradient. Considering the absence of known Point of Use wells downgradient, the risk profile is unlikely to be affected.

- Looking at the wells located south of the waste burial areas (Source ID 07) around the south-east corner of the Site (MW316, MW318, MW321):
  - MW316 (Upper Alluvium) reported stable or no clear trends and reported PFAS concentrations in November 2023 within historical ranges.
  - MW318 (Lower Alluvium) reported new maximums for PFOS+PFHxS and PFOS in November 2023, a new exceedance of Drinking Water Criteria for PFOS+PFHxS, and a possibly increasing trend for PFOS.
  - MW321 (Haunted Hills) also reported new maximums for PFOS+PFHxS and PFOS in November 2023, a new exceedance of Drinking Water Criteria for PFOS+PFHxS, but reported stable or no clear trends overall. However, PFAS concentrations at MW321 were similar to MW318. It is possible that there is increased connectivity between the Lower Alluvium and Haunted Hills in this area.
- Further downgradient, point of use wells POT042 and POT051 both reported new maximums for PFOS+PFHxS and PFOS in November 2023. A possibly increasing trend for PFOS+PFHxS was observed for POT042, whilst no clear trend was observed for POT051. POT042 and POT051 are inferred to be screened in the Haunted Hills formation, however, actual well construction details are unknown. Based on correspondence with the landowner, these two wells were installed as “test points” and are not extracted from. Refer to Section 4.2 for additional notes in relation to these wells.
- MW319, the extractive bore located south of the Site, reported stable or no clear trends. November 2023 results were within historical ranges and below Drinking Water Criteria. Based on water use surveys (WUS), water extracted from MW319 is used for irrigation of crops (Lucerne for stockfeed).
- MW302, an extractive bore located to the south-east of the Site, reported a new maximum for PFOS in November 2023 (0.02 µg/L), however, all results were reported below Drinking Water Criteria. Based on WUS, water extracted from MW302 is used for stock watering.
- Overall, PFAS concentrations in the majority of Offsite wells appear to be stable or showing no clear trends. However, select Offsite wells appear to be increasing, notably around MW008/MW009 to the south, MW015/MW016 to the east, and near the south-east corner of the Site (near the confluence of the Western Drain and Eastern Main Drain). Whilst new exceedances of Drinking Water Criteria have been reported in some locations, Point of Use bores that are known to be extracted from reported all results below Drinking Water Criteria and as such, there is no change to the risk profile at these locations.

8.2 Surface Water

8.2.1 Surface Water – Groundwater Interaction

Since 2016 when monitoring commenced, surface water elevations in the southern portion of the Eastern Main Drain relative to groundwater elevations in wells in the Upper Alluvium aquifer indicate that groundwater was discharging into the southern portion of the drain. However, groundwater levels at nearby wells along the southern boundary and parallel to the Western Drain (MW714, MW707, MW735, and MW316) have been periodically below sea level or lower than the surface water survey level, which is below the floor of the drain in that area.

The Interpretive PFAS Mass Assessment (Senversa, 2023b) concluded that of the 5.0 km of open earthen drainage in the Eastern Catchment, including the Eastern Main Drain, approximately 3.2 km of earthen drainage is interpreted to receive (gain) groundwater from the Upper Alluvium aquifer, although there is some variability. Senversa’s interpretation of data from co-located loggers installed along the Eastern Main Drain at MW702 and MW708 infers that the interaction between groundwater and surface water is highly variable, with the drain’s ability to gain water from the aquifer dependant on the presence of more permeable zones. Overall, it is inferred that some groundwater in the Upper Alluvium discharges into the Eastern Main Drain, however, this volume is likely to be limited.

Another area of surface water – groundwater interaction identified in the Interpretive PFAS Mass Assessment (Senversa, 2023b) was near the Current Fire Station (Source ID 06) and the nearby Main Airfield Drains. Shallow groundwater is interpreted to discharge to the Main Airfield Drains near the Fire Station (Source ID 06).

Senversa (2023b) also concluded that any surface water – groundwater interactions in the Western Catchment are likely to be limited, with approximately 0.5 km of open earthen drainage receiving groundwater discharge, whilst approximately 4.4 km is interpreted to lose surface water to groundwater over an extended period. The gaining portion of the drains in the Western Catchment is situated near the surface water retention basin and is considered active only shortly after spring rainfall events, however, this may be affected by groundwater extraction activities to the south at MW319.

Hydrographs for MW707 and MW714 depicting the gauging when groundwater levels were below sea level are included in Figure 8-1. This may suggest that sections of the Eastern Main Drain are periodically losing surface water to the Upper Alluvium aquifer. However, these are not expected to be consistent along the Site boundary and gaining or losing relationships are expected to be variable. As summarised in Table 2-1, the Eastern Main Drain appears connected to groundwater, with upper reaches gaining and the southern reaches either periodically gaining or losing.

8.2.2 PFAS Time-Series

8.2.2.1 Offsite Drain (North-west Corner of Site)

SW049 and SW201 have both shown variability in reported PFAS concentrations over time. During November 2022, historical maximums were reported at both locations (17.0 µg/L PFOS+PFHxS at SW201 and 1.67 µg/L at SW049). In November 2023, SW201 could not be sampled due to the location being dry, whilst SW049 reported all results below LOR. SW049 has reported results below LOR in several events in the past, showcasing the variability of results at this location over time.

8.2.2.2 Onsite Western Drainage Network

- Due to relatively dry conditions along parts of the Onsite Western Drainage Network during the time of sampling, seven surface water locations could not be sampled. Overall, PFAS concentrations within the Onsite Western Drainage Network were consistent with historical results (i.e. within historical range) with the exception of new maximums reported for all three key analytes at SW246, located just to the north of the surface water retention basin.
- New maximums were reported at SW246 for PFOA, PFOS and PFOS+PFHxS concentrations. The new maximums were marginally higher than the previous maximums, which were reported in April 2021. Overall, no apparent trends are observed at SW246 over time.
- As seen in the PFAS Interpretive Mass Assessment (Senversa, 2023b), PFAS concentrations within the Onsite Western Drainage Network can fluctuate considerably in response to rainfall events. Conditions encountered at the time of sampling are likely to be representative of drier conditions.

8.2.2.3 Onsite Eastern Drainage Network

- All locations within the Onsite Eastern Drainage Network, with the exception of SW216, were sampled in November 2023. Overall, PFAS concentrations were consistent with historical results (i.e. within historical range) with the exception of new maximums reported at SW239 for all three key analytes.
- According to the PFAS Interpretive Mass Assessment (Senversa, 2023b), SW239 is one of two locations within the Eastern Catchment with the highest PFAS concentrations. SW239 represents the receiving area of surface water from the Current Fire Station (Source ID 06) and the airfield, and this sub-catchment is one of the main contributors of PFAS mass to the Eastern Main Drain and ultimately Offsite. Whilst a new maximum was reported at SW239 in November 2023, overall there are no clear apparent trends over time. Despite the new maximums at SW239, downstream locations reported results within historical range, including at SW251 at the confluence of the Western Drain and Eastern Main Drain.
- At the time of sampling, surface water flow conditions in the Onsite Eastern Drainage Network were noted to be either stagnant or low flow. According to Senversa (2023b), the Eastern Main Drain is only observed to be flowing 30% of the time, despite there being some limited discharge of shallow groundwater. As such, conditions encountered at the time of sampling are likely to be representative of “baseflow” conditions and observed surface water PFAS concentrations are likely to be partially sourced from groundwater. PFAS concentrations within the Onsite Eastern Drainage Network have also been previously observed to fluctuate considerably in response to rainfall events (Senversa, 2023b).

8.2.2.4 Offsite Inflow to The Heart Morass

- A new maximum at SW033 was reported in the latest sampling event in November 2023 (E13) for PFOS+PFHxS (9.87 µg/L), marginally higher than the previous maximum of 8.53 µg/L reported in February 2022. Flow conditions at the time of sampling was noted as stagnant, suggesting PFAS impacts may have accumulated within the Offsite Inflow channel flowing to The Heart Morass from groundwater discharge and sediment partitioning, similar to the first-slug mechanism described in the Interpretive PFAS Mass Assessment (Senversa, 2023b). The first-slug mechanism is also not the main driver of Offsite PFAS migration as most PFAS discharge happens around peak flows. An overall apparent increasing trend over time is noted at SW033.

- As concluded in the Interpretive PFAS Mass Assessment, surface water discharge is estimated to be responsible for 90% (1.27 kg/year) of the annual total PFAS mass discharge from Site to Offsite (Senversa, 2023b).

8.2.2.5 The Heart Morass Monitoring Area

- New minimums were reported for PFOS and PFOS+PFHxS at SW002, SW015, SW016 and SW030 in the latest sampling event. New minimums were also reported for PFOA and PFOS+PFHxS at SW052. All other locations within The Heart Morass Monitoring Area reported results in November 2023 within historical ranges. Additionally, concentrations appear to be near the lower end of historical ranges. As a whole, surface water PFAS concentrations in November 2023 within The Heart Morass appear to be relatively low compared to historical concentrations. Apparent decreasing trends over time are observed at SW001 and SW011. No clear trends are apparent at any other location. From Figure 7-1, it can be seen that the November 2023 (E13) sampling events took place shortly after a flooding event when the flood waters have just receded. It is likely that this has contributed to the relatively low concentrations observed during this sampling event.
- Spatially, the highest concentrations in The Heart Morass were reported near the mouth of the Eastern Main Drain discharge point into The Heart Morass (SW004 and SW002) and along the northern shoreline south and south-east of the Site where groundwater from the Site is inferred to discharge (SW034, SW001, SW035, SW041, SW052, SW277 and SW088). The highest concentration was reported at SW004 (1.49 µg/L PFOS+PFHxS), which does not exceed the exposure concentration of 1.76 µg/L adopted in the HHERA for the assessment of direct ecological risks and ecological bioaccumulation in surface water in The Heart Morass (Senversa, 2018a). The risk evaluation from the HHERA was “Potentially Elevated” for both direct ecological risks and ecological bioaccumulation. Whilst the adopted exposure concentration was not exceeded, this does not necessarily mean that the risk profile has reduced.
- In comparison, all remaining surface water locations located at the centre of the water body (SW015, SW016 and SW089) and along the south bank of The Heart Morass (SW082 and SW014) reported PFOS+PFHxS concentrations below 0.2 µg/L. PFOS+PFHxS concentrations at SW089 (0.16 µg/L), located immediately upstream of the Ramsar[3] site boundary associated with Lake Wellington (a Ramsar site), still exceeds Drinking Water Criteria.
- PFOS+PFHxS and PFOS concentrations at The Heart Morass outflow to Lake Wellington (SW019 and SW092) were both 0.03 µg/L, which is below the Drinking Water Criteria but above the Ecological Criteria (99% species protection). The historical average PFOS+PFHxS concentrations for SW019 and SW092 is 0.03 µg/L.

8.2.2.6 Flooding River (inlet to The Heart Morass)

PFAS concentrations reported for monitoring location SW077 collected from the Flooding River (Inlet to The Heart Morass) was consistent with historical concentrations (pre OMP to 2022).

PFAS concentrations at SW077 were just above the LOR in the latest sampling event (0.02 µg/L PFOS+PFHxS), suggesting that there continue to be some minor contribution of PFAS to The Heart Morass from Offsite sources.

8.2.2.7 Latrobe River

PFAS concentrations reported for monitoring locations along the Latrobe River all reported below the LOR and were consistent with historical concentrations (pre OMP to 2022).

Latrobe River is a perennial stream flowing separately but alongside the southern boundary of The Heart Morass. PFAS impacts normally are unlikely to enter Latrobe River from The Heart Morass, however, extreme regional rainfall events can lead to flooding of both Latrobe River and The Heart Morass. Extreme flooding events have connected the two surface water bodies in the past caused by elevated surface water levels. PFAS impacts from The Heart Morass may then migrate into the Latrobe River, before being discharged into Lake Wellington to the east. At the time of sampling in November 2023, the Latrobe River and The Heart Morass did not appear to be connected.

[3] The Ramsar Convention on Wetlands of International Importance Especially as Waterfowl Habitat.

8.2.3 Conditions Impacting Surface Water Interpretive Analysis

There were several surface water locations where data could not be collected due to drains being dry or conversely, inaccessible, due to unsafe working conditions. However, sufficient water was generally present at key locations, such as the Eastern Main Drain.

As with groundwater, variability in PFAS concentrations was expected due to seasonal and climatic conditions, particularly the drains servicing the runways.

Conditions in The Heart Morass were likely impacted by a recent flooding event which occurred approximately one month prior to the E13 sampling event (see Figure 7-1).

8.3 Sediment

8.3.1 Sediment PFAS Concentrations over Time

The sediment PFAS concentrations from January 2016 to November 2023 are shown in Figures 9A to 9F, Appendix A. A discussion of the sediment results is presented in the following sections.

8.3.1.1 Offsite Drain (North-west Corner of Site)

New minimums were reported at SD049 for PFOS and PFOS+PFHxS in November 2023, with all three key PFAS analytes reported below LOR. This is congruous with the surface water sampling results at SW049, where all results were reported below LOR.

PFAS results at SD201 were reported within historical range. These impacts are most likely associated with the MEOMS source area.

8.3.1.2 Onsite Western Drainage Network

PFOS+PFHxS concentrations within the Western Drainage Network ranged from 0.0042 mg/kg (SD227, within the ornamental lake in golf course area) to 1.13 mg/kg (SD217, located in a grassy swale near the AFFF testing area (Source ID 11)). PFOA ranged between less than the LOR (SD223 and SD242) to 0.0032 mg/kg (SD217). New maximums were reported for PFOS and PFOS+PFHxS at SD217, slightly higher than the previous maximums reported in November 2020. New minimums were reported for PFOS and PFOS+PFHxS at SD242, located within the Central Drain. SD249, the most downstream location along the Onsite Western Drainage Network, reported 0.0223 mg/kg of PFOS+PFHxS, PFOA less than LOR, and all results within historical range. No clear concentration trends over time were observed for SD217 or in general across the sediment monitoring locations.

Overall, whilst acknowledging the new maximums reported at SD217, sediment PFAS concentrations reported pre-OMP up to November 2023 (E13) within the Onsite Western Drainage Network do not show any apparent trends over time.

8.3.1.3 Onsite Eastern Drainage Network

PFOS+PFHxS concentrations within the Eastern Drainage Network ranged between 0.0418 mg/kg (SD251, located at the most downstream point of the Eastern Main Drain before the culvert discharging Offsite) and 1.09 mg/kg (SD209, located in a closed drain within the Current Fire Station (Source ID 06) source area and at the upstream portion of the Eastern Drainage Network). PFOA ranged between less than the LOR (multiple locations) to 0.0143 mg/kg (SD209). As expected, the highest PFAS concentrations in sediment were found near the upstream portion of the drainage network and within a key source area (the Current Fire Station (Source ID 06) is one of two main source areas contributing to Offsite mass flux), and the lowest PFAS concentrations were found at the most downstream portion.

All other monitoring locations within the Onsite Eastern Drainage Network reported PFOS+PFHxS and PFOS concentrations at least one order of magnitude lower than values reported for SD209.

There were no new maximums reported in the latest monitoring event. All reported concentrations were consistent with historical ranges.

8.3.1.4 Offsite Drain Inflow to The Heart Morass

There were no new maximums reported in the latest monitoring event. Both surface water and sediment concentrations at SW033/SD033 are consistent with samples taken within the Eastern Main Drain, but higher than PFAS concentrations detected in surface water and sediment within the Western Drain. This drainage point is a consolidation point for most of the Sites drainage discharge.

8.3.1.5 The Heart Morass Monitoring Area

New minimums for PFOS+PFHxS and PFOS were reported at SD001, SD019, SD034, SD082 and SD276, three of which (SD001, SD019, and SD082) also reported PFOA below LOR. A new minimum for PFOA was reported at SD088, and a first-time detect for PFOA was reported at SD011 (only slightly above LOR, thus not considered significant). However, these locations are spread out across various parts of The Heart Morass rather than being spatially contiguous. No new maximums were reported (aside from SD011), with all other locations reporting results within the historical range. As a whole, PFAS concentrations within sediment in The Heart Morass appear to be on the lower end of the historical range, congruous with surface water results. From Figure 7-1, it can be seen that the November 2023 (E13) sampling events took place shortly after a flooding event when the flood waters have just receded. It is likely that this has contributed to the relatively low concentrations observed during this sampling event.

The highest PFOS+PFHxS concentrations in The Heart Morass was reported at SD268 (1.62 mg/kg), located near the point where the Eastern Main Drain discharges into The Heart Morass. The lowest PFOS+PFHxS concentrations were reported at SD082 (0.0006 mg/kg), located in the south-western portion of The Heart Morass (upstream of the Offsite drain inflow to The Heart Morass), and SD019 (0.0009 mg/kg), located at the most downstream portion of The Heart Morass near the discharge point to Lake Wellington.

8.3.2 Conditions Impacting Sediment Interpretive Analysis

Sediment samples at SD030 were unable to be collected due to the location being considered as having unsafe working conditions due to aggressive livestock. However, this was not considered to affect the overall outcome of the assessment. As with groundwater and surface water, variability in PFAS concentrations in sediment is expected due to seasonal and climatic conditions.

Conditions in The Heart Morass were likely impacted by a recent flooding event which occurred approximately one month prior to the E13 sampling event (see Figure 7-1).

9 Conceptual Site Model

Senversa (2017) developed a CSM for the Site as part of the DSI, which has been reviewed by Cardno considering the new datasets available. The CSM was further refined as part of the Interpretive PFAS Mass Assessment (Senversa, 2023b), however, the findings of the assessment did not alter the existing understanding of the risk profile.

As part of the OMR, the following has been considered:

- Is there evidence of new PFAS source areas?
- Is there evidence of new pathways via groundwater or surface water?
- Is there evidence of new receptors?

9.1 New PFAS Source Areas

No new PFAS source areas have been identified since the previous consolidated 2021-2022 OMR. The Interpretive PFAS Mass Assessment (Senversa, 2023b) identified that there are two key source areas which are contributing to Offsite mass flux: the Fire Station (Source ID 06) and Former AFFF Testing Area (Source ID 11).

9.2 New Pathways

The Interpretive PFAS Mass Assessment (Senversa, 2023b) was able to better define and confirm PFAS migration pathways Onsite and how PFAS travel from source areas to the Eastern Main Drain and Western Drain. In particular, surface water-groundwater interactions are better understood, including the confirmation of discharge of PFAS-impacted groundwater from the Current Fire Station (Source ID 06) into the Main Airfield Drains as an important migration mechanism. The assessment was also able to quantify that approximately 90% of Offsite PFAS mass flux occurs via surface water (~1.27 kg/year), the primary migration pathway, and approximately 10% occurs via groundwater (~0.13 kg/year), which is a secondary migration pathway. However, it is noted that mass flux via the Haunted Hills aquifer was not considered as part of the assessment. Given the increasing trends reported at a number of groundwater monitoring wells screened within the Haunted Hills aquifer, and the Haunted Hills aquifer having almost an order of magnitude higher seepage velocity than the Lower Alluvium, this is likely a data gap in the mass flux assessment.

No new exposure pathways were identified.

9.3 New Receptors

No new receptors have been identified.

9.4 CSM Revisions

The CSM was updated based on the findings of the Interpretive PFAS Mass Assessment (Senversa, 2023b). Based on the findings of this OMR, groundwater mass flux via the Haunted Hills aquifer may be a potential data gap.

The Data Quality Objectives (DQOs) as set out in the SAQP (Cardno, 2022d) are considered adequate for the development and refinement of the CSM and for identifying any potential updates required.

10 Discussion

10.1 Summary of Risk Profile

The risk profile, as identified in the DSI (Senversa, 2017) and HHERA (Senversa, 2018a), is summarised below.

Four potentially elevated risks associated with the following pathways from the CSM were identified:

- Home consumption of fish (including eels) caught from The Heart Morass.
- Home consumption of ducks recreationally hunted from The Heart Morass.
- Exposure of aquatic ecological receptors in surface waters, and to higher order predators consuming these biota.
- Home consumption of meat, milk or offal from livestock raised Onsite into which PFAS has bioaccumulated.

Four potential risk sources associated with the following pathways from the CSM that require monitoring or management were identified:

- Shallow groundwater (Upper Alluvium) impacts migrating Onsite.
- Shallow groundwater (Upper Alluvium) impacts migrating Offsite onto private properties.
- Deeper groundwater (Lower Alluvium and Haunted Hills Formation) impacts migrating Offsite.
- Migration pathways from soil sources Onsite.

10.2 Consideration of 2023 Monitoring Results on Risk Profile[4]

10.2.1 Groundwater

Comparing 2023 results to historical results, the following were observed:

- All groundwater monitoring wells screened within the Upper Alluvium aquifer (Onsite and Offsite) reported November 2023 PFAS concentrations within historical range, with the exception of MW603 (located near Lake Edward (Source ID 25)) and MW015 (located Offsite to the east).
- Four monitoring wells screened within the Lower Alluvium aquifer reported new maximums: MW008 (Offsite to the south), MW016 (Offsite to the east, adjacent to MW015), MW310 (immediately downgradient of Waste Burial Areas (Source ID 07)), and MW318 (Offsite near the south-east corner of the Site).
- Four monitoring wells screened within the Haunted Hills aquifer reported new maximums: MW705 (Waste Burial Areas (Source ID 07)), MW737 (MEOMS area), MW009 (Offsite to the south, adjacent to MW008), and MW321 (Offsite near the south-east corner of the Site, adjacent to MW318).
- Three Point of Use wells reported new maximums: MW302 (Offsite to the south-east), POT042 (Offsite downgradient of MW318 and MW321), and POT051 (Offsite nearby POT042).
- Three monitoring wells reported a new exceedance of Drinking Water Criteria for PFOS+PFHxS in 2023: MW015, MW318 and MW321.

With regards to statistically significant concentration trends over time (Mann-Kendall), the following were observed:

- North-west Area - mixture of increasing, decreasing, stable and no clear trends in Upper Alluvium, but increasing trends in the only Haunted Hills monitoring well in the area.
- Former AFFF Testing Area (Source ID 11) – mixture of increasing, decreasing, stable and no clear trends in Upper Alluvium, but increasing trends in the only Haunted Hills monitoring well in the area.
- Current Fire Station (Source ID 06) – either stable, decreasing or no clear trends.

[4] As the OMP does not include the sampling of biota, no evaluation can be made in this report on any potential changes to human consumption risks where biota data was used in the HHERA to assess such risks.

- Southern Area – mostly stable, increasing or no clear trends. Two wells at the boundary reported increasing trends.
- Offsite – either stable, increasing or no clear trends.

The origin of PFAS impacts at MW015 and adjacent MW016 are unclear due the lack of surrounding wells and the remote location of these wells from known source areas. Considering the absence of known Point of Use wells downgradient, the risk profile is unlikely to be affected. The origin of PFAS impacts at MW008 and MW009 is not immediately apparent considering their location, however, it may be derived from Site which is semi-upgradient. Considering the absence of known Point of Use wells downgradient, the risk profile is unlikely to be affected.

The observed new maximums, new exceedances and increasing trends in deeper (Lower Alluvium or Haunted Hills) Offsite wells near the south-east corner of the Site (MW318, MW321, POT042 and POT051) and downgradient of the Waste Burial Areas (Source ID 07) (MW739 and MW310) indicate continued migration of PFAS impacts Offsite within the Lower Alluvium and Haunted Hills aquifers in two areas. This is a change from the findings of the 2021-2022 OMR where increasing trends were only observed downgradient of the Waste Burial Areas (Source ID 07) (Cardno, 2024a).

It is acknowledged that human-exposure pathways immediately downgradient of these areas are incomplete and thus there is no change in the risk profile. November 2023 PFAS concentrations at Point of Use wells that are known to be actively extracted from are either below LOR and/or below Drinking Water Criteria. However, PFAS continues to be present in groundwater immediately Off-site at concentrations exceeding Drinking Water Criteria and ecological criteria. As groundwater is inferred to discharge to The Heart Morass, these undelineated impacts also likely contribute to the potentially elevated risk posed to ecological receptors within The Heart Morass. Additionally, data gaps remain regarding the construction details and integrity of Point of Use wells and which aquifer(s) they are actually screened in.

10.2.2 Surface Water

The majority of concentrations reported for surface water locations were consistent with historical results, with only three locations reporting new maximums: SW246 (located immediately upstream of the Retention Basin in the Onsite Western Drainage Network), SW239 (located downstream of the Current Fire Station (Source ID 06) and Main Airfield Drain in the Onsite Eastern Drainage Network), and SW033 (Offsite inflow to The Heart Morass). Although there were new maximums reported, all maximums were only marginally higher than the previous maximums reported and no clear concentration trends over time are apparent. Variability of PFAS results over time within Onsite drainage network locations remain high, and based on the Interpretive PFAS Mass Assessment (Senversa, 2023b), concentrations are known to also vary considerably in response to rainfall events. 2023 OMP results indicate ongoing discharge of PFAS from the Site to The Heart Morass via surface water. This mass discharge (flux) has been estimated in the Interpretive PFAS Mass Assessment (Senversa, 2023b).

Within The Heart Morass, a number of new minimums were reported and no new maximums were reported. Additionally, the majority of concentrations appear to be near the lower end of historical ranges. As a whole, surface water PFAS concentrations in November 2023 within The Heart Morass appear to be relatively low compared to historical concentrations. Apparent decreasing trends over time are observed at SW001 and SW011. No clear trends are apparent at any other location. The November 2023 (E13) sampling event took place shortly after a flooding event when the flood waters had just receded. It is likely that this has contributed to the relatively low concentrations observed during this sampling event.

Potentially elevated direct toxicity risks to ecological receptors remain, in particular near the point where the Eastern Main Drain discharges to The Heart Morass. PFOS+PFHxS and PFOS concentrations at The Heart Morass outflow towards Lake Wellington remain below the Drinking Water Criteria but above the Ecological Criteria (99% species protection).

10.2.3 Sediment

The majority of concentrations reported for sediment monitoring locations were consistent with historical results, with only one location reporting a new maximum: SD217 (located in a grassy swale near the Former AFFF testing area (Source ID 11) within the Onsite Western Drainage Network).

Within The Heart Morass, the majority of sediment results appear to be congruous with surface water results. A number of new minimums were reported and no new maximums were reported and as a whole, PFAS concentrations within sediment in The Heart Morass appear to be on the lower end of the historical range. The highest PFOS+PFHxS concentrations in The Heart Morass was reported near the point where the Eastern Main Drain discharges into The Heart Morass, whilst the lowest PFOS+PFHxS concentrations were

reported in the south-western (upstream) portion of The Heart Morass and at the most downstream portion of The Heart Morass near the discharge point to Lake Wellington.

10.3 Assessment of Current OMP

The revised OMP (Senversa, 2023a) was in effect for the latest monitoring event in November 2023 (E13). The revised OMP proposed annual monitoring of all groundwater, surface water and sediment locations instead of quarterly or biannually. Based on the findings of this OMR, a review of the OMP (Senversa, 2023a) is considered to be warranted. It is understood that the revised OMP is undergoing review in 2024.

11 Conclusions

The 2023 monitoring period met the overall OMP objective to assess for any changes in the nature and extent of PFAS within the environment; specifically, where there was an identified potentially elevated risk to a receptor or a potential future risk to a receptor associated with Defence's historical use of legacy AFFF. While deviations from the original OMP program have occurred (see Table 3-2), the latest monitoring has been carried out to the extent possible, in accordance with the SAQP (Cardno, 2023).

For the groundwater and surface water assessment, a qualitative review of new minimums, maximums, first-time detections and new exceedances of assessment criteria was performed to investigate concentration changes at specific monitoring locations. Additionally, for groundwater a quantitative statistical assessment, using Mann-Kendall trend analysis, was performed to investigate concentration changes at specific monitoring locations. As per the requirements outlined in the Defence Annual Interpretive Report Guidance (Defence, 2022), trend analysis of surface water and sediment was not performed.

11.1 Groundwater

In 2023, PFAS concentrations in groundwater within the Upper Alluvium were generally reported within historical range and most locations reported stable or no clear concentration trends over time. Some locations within known source areas reported increasing concentration trends, suggesting continued leaching of PFAS impacts into shallow groundwater. Within the Lower Alluvium and Haunted Hills aquifers, new maximums and increasing trends appear to be more prevalent, indicating continued vertical migration of PFAS. This is observed in particular around the MEOMS area, the Former AFFF Testing Area (Source ID 11), the Waste Burial Area (Source ID 07), and near the south-east corner of the Site (by the confluence of the Western Drain and Eastern Main Drain). There were no order of magnitude increases reported in November 2023 compared to the previous monitoring event.

Continued Offsite migration of PFAS impacts within the Lower Alluvium and Haunted Hills is observed immediately downgradient of the Waste Burial Areas (Source ID 07) and near the south-east corner of the Site. It is acknowledged that human-exposure pathways immediately downgradient of these areas remain incomplete (no groundwater extraction), as they have been previously, and thus there is no change in the risk profile. November 2023 PFAS concentrations at Point of Use wells that are known to be actively extracted from are either below LOR and/or below Drinking Water Criteria. However, the presence of elevated PFAS impacts within groundwater downgradient of the Site continues to pose a potential future risk to groundwater users . As groundwater is inferred to discharge to The Heart Morass, these undelineated impacts also likely contribute to the potentially elevated risk posed to ecological receptors within The Heart Morass. Additionally, data gaps remain regarding the construction details and integrity of Point of Use wells and which aquifers they are actually screened in.

11.2 Surface Water

The majority of surface water concentrations Onsite in November 2023 were consistent with historical results and no clear concentration trends over time are apparent. Variability of PFAS results over time within Onsite drainage network locations remain high, and based on the Interpretive PFAS Mass Assessment (Senversa, 2023b), concentrations are known to also vary considerably in response to rainfall events. 2023 OMP results indicate ongoing discharge of PFAS from the Site to The Heart Morass via surface water. This mass discharge (flux) has been estimated in the Interpretive PFAS Mass Assessment (Senversa, 2023b).

Offsite within The Heart Morass, surface water PFAS concentrations in November 2023 appear to be relatively low compared to historical concentrations. Apparent decreasing trends over time are observed at SW001 and SW011. No clear trends are apparent at any other location. The November 2023 (E13) sampling event took place shortly after a flooding event when the flood waters had just receded. It is likely that this has contributed to the relatively low concentrations observed during this sampling event.

Potentially elevated direct toxicity risks to ecological receptors remain, in particular near the point where the Eastern Main Drain discharges to The Heart Morass. PFAS concentrations at The Heart Morass outflow towards Lake Wellington remain below the Drinking Water Criteria but above the Ecological Criteria (99% species protection).

11.3 Sediment

The majority of November 2023 PFAS concentrations reported for sediment monitoring locations Onsite were consistent with historical results. Offsite within The Heart Morass, the majority of sediment results appear to be congruous with surface water results, with most PFAS concentrations appearing to be on the

lower end of the historical range. The highest PFOS+PFHxS concentrations in The Heart Morass was reported near the point where the Eastern Main Drain discharges into The Heart Morass, whilst the lowest PFOS+PFHxS concentrations were reported in the south-western (upstream) portion of The Heart Morass and at the most downstream portion of The Heart Morass near the discharge point to Lake Wellington.

11.4 Conceptual Site Model & Risk Profile

The CSM was refined based on the findings of the Interpretive PFAS Mass Assessment (Senversa, 2023b). No new sources, exposure pathways or receptors were identified in 2023, however, migration pathways are now better understood. Based on the findings of this OMR, groundwater mass flux via the Haunted Hills aquifer is likely a data gap.

The 2023 OMP results do not indicate any change to the existing risk profile. PFAS concentrations at Point of Use wells that are known to be actively extracted from are either below LOR and/or below Drinking Water Criteria. However, PFAS continues to migrate beyond the Site boundary in the south-eastern portion of the Site and is present in groundwater immediately Off-site at concentrations exceeding Drinking Water Criteria and ecological criteria, thereby posing a potential future risk to groundwater users further down-gradient.

Based on the findings of this OMR, a review of the OMP (Senversa, 2023a) is considered to be warranted. It is understood that the revised OMP is undergoing review in 2024.

12 References

General References

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3. Department of Defence (2019b), *Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guidance - Routine Water Quality Monitoring.*
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6. Heads of Environmental Protection Authority's Australia and New Zealand (HEPA; 2020), *National Environmental Management Plan (NEMP),* Version 2.0, January 2020.
7. National Environment Protection Council (NEPC; 1999), *National Environment Protection (Assessment of Site Contamination) Measure* (as amended), registered May 2013.
8. National Health and Medical Research Council (NHMRC; 2019), *Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water,* August 2019.
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11. Department of Defense Strategic Environmental Research and Development Program (SERDP; 2020). *Guidance for Assessing the Ecological Risks of PFASs to Threatened and Endangered Species at Aqueous Film Forming Foam-Impacted Sites*, January 2020.
12. Simpson S., Liu Y., Spadaro D., Wang X., Kookana R., Batley G. (2021), *Chronic Effects and Thresholds for Estuarine and Marine Benthic Organism Exposure to Perfluorooctane Sulfonic Acid (PFOS)-contaminated sediments: Influence of Organic Carbon and Exposure Routes*, Science of the Total Environment, 2021.
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Site Specific References

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16. Cardno (2023), *PFAS Ongoing Monitoring Sampling and Analysis Quality Plan (SAQP) RAAF Base East Sale, Rev 15,* 21 December 2023.
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18. Cardno (2024b), *PFAS OMP Factual Report: Annual Sampling Event November 2023,* 31 January 2024.
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20. Senversa (2017), *Detailed Site Investigation – RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations,* 7 June 2017 (Final – reference M11818_119_RPT_Rev4_DSI).

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22. Senversa (2018b), *RAAF Base East Sale PFAS Management Area Plan*, August 2018.

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APPENDIX

A

FIGURES

Cardno

now

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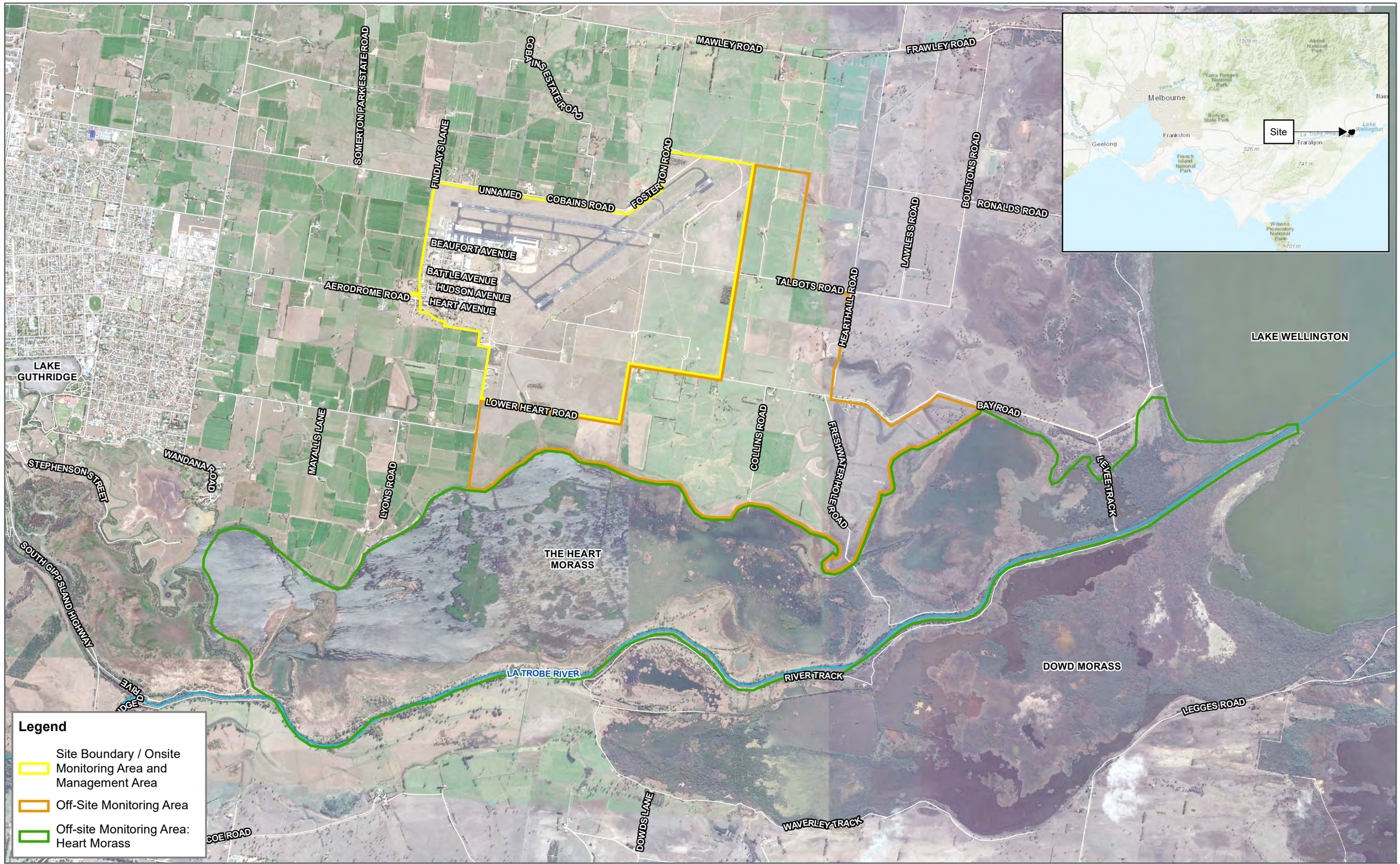

FIGURE 1A

1:40,000 Scale at A3

Metres

0 1,000 2,000

Site Locality Plan

ONGOING MONITORING REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-27 | Project: DEF19008
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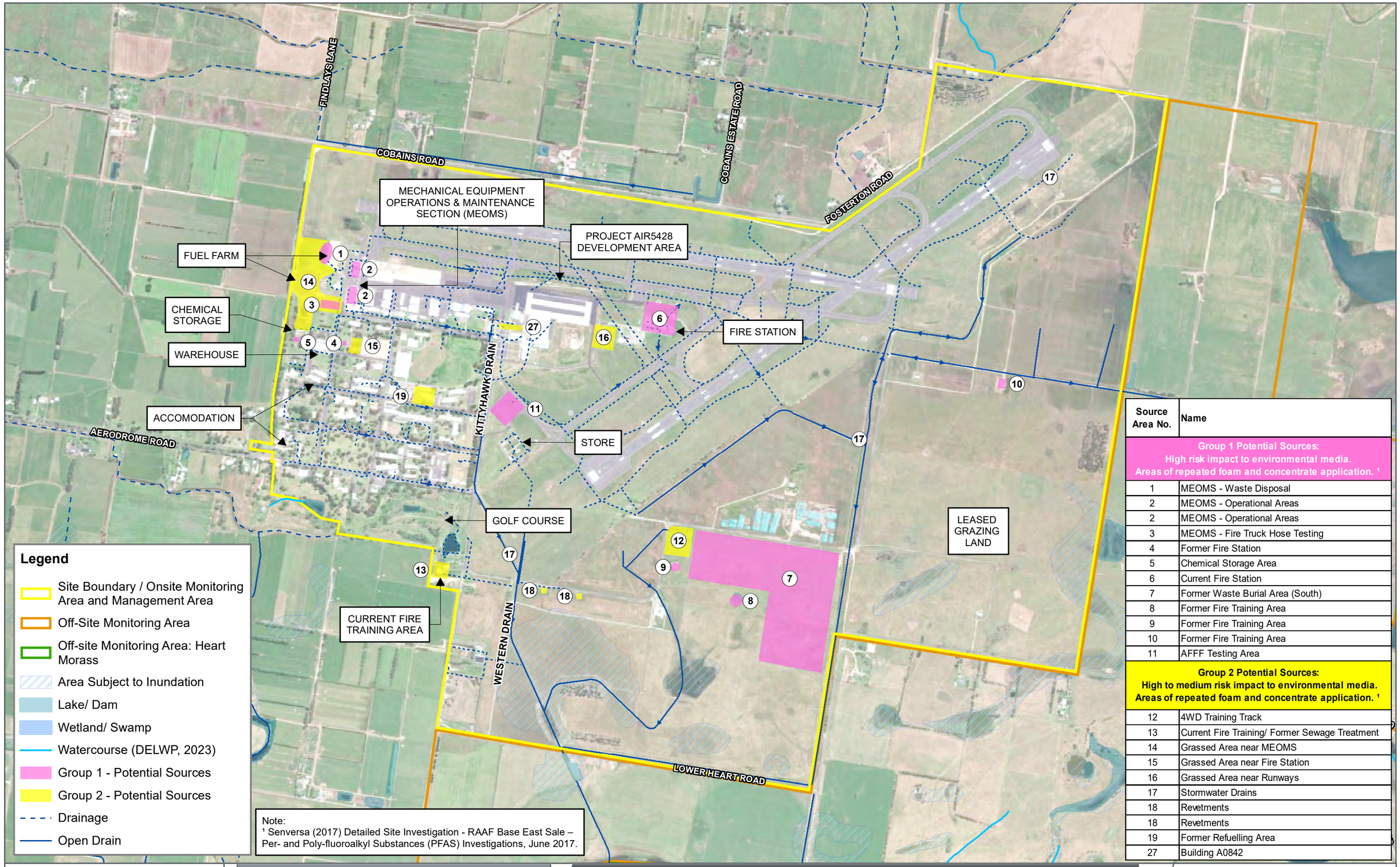

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Off-site Monitoring Area: Heart Morass
- Area Subject to Inundation
- Lake/ Dam
- Wetland/ Swamp
- Watercourse (DELWP, 2023)
- Group 1 - Potential Sources
- Group 2 - Potential Sources
- Drainage
- Open Drain

Note:
[1] Senversa (2017) Detailed Site Investigation - RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations, June 2017.

Source Area No.	Name
Group 1 Potential Sources: High risk impact to environmental media. Areas of repeated foam and concentrate application. [1]	
1	MEOMS - Waste Disposal
2	MEOMS - Operational Areas
2	MEOMS - Operational Areas
3	MEOMS - Fire Truck Hose Testing
4	Former Fire Station
5	Chemical Storage Area
6	Current Fire Station
7	Former Waste Burial Area (South)
8	Former Fire Training Area
9	Former Fire Training Area
10	Former Fire Training Area
11	AFFF Testing Area
Group 2 Potential Sources: High to medium risk impact to environmental media. Areas of repeated foam and concentrate application. [1]	
12	4WD Training Track
13	Current Fire Training/ Former Sewage Treatment
14	Grassed Area near MEOMS
15	Grassed Area near Fire Station
16	Grassed Area near Runways
17	Stormwater Drains
18	Revetments
18	Revetments
19	Former Refuelling Area
27	Building A0842

FIGURE 1B

1:15,000 Scale at A3

Metres

0 500 1,000

Site Layout & Potential PFAS Source Areas

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

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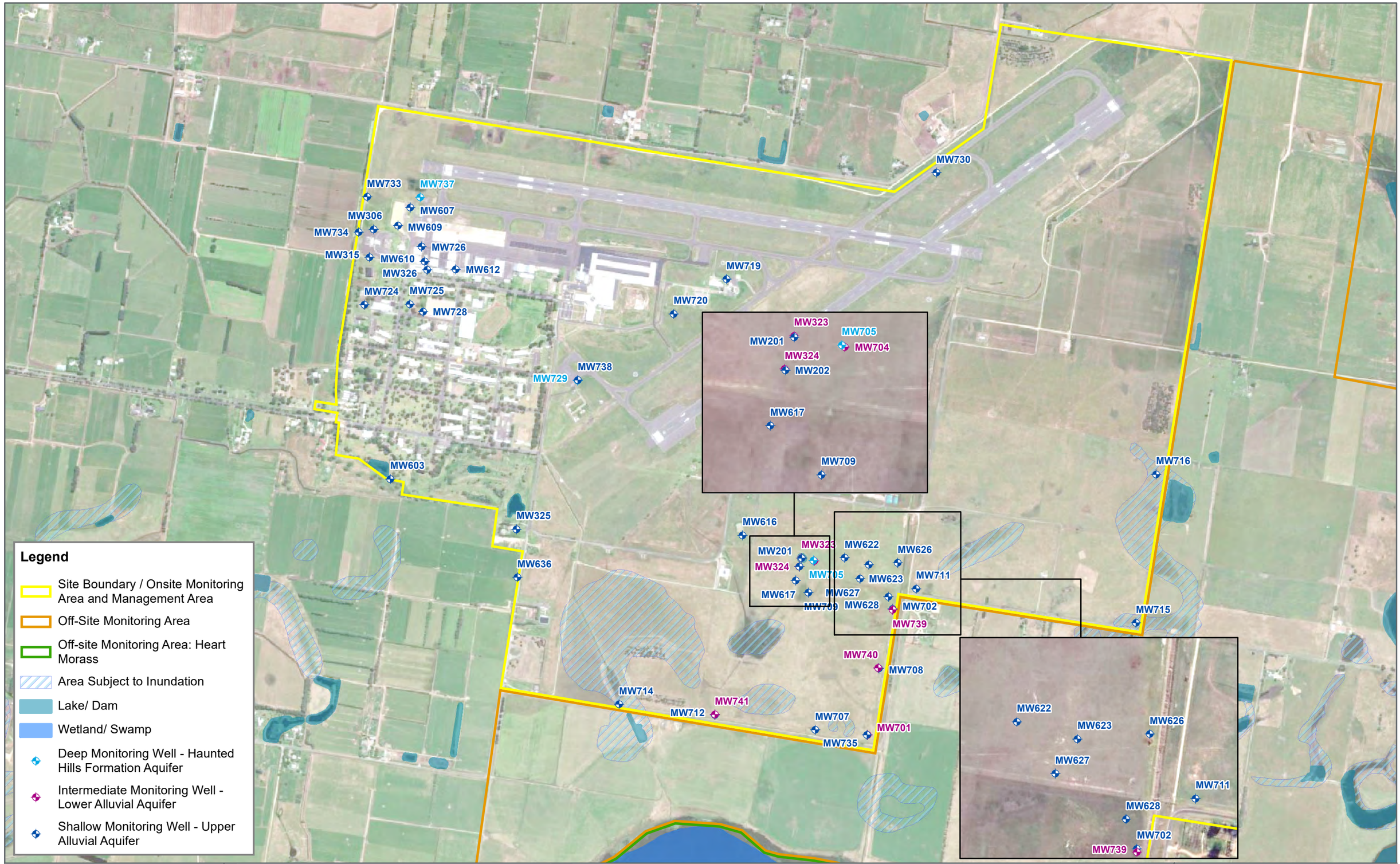

FIGURE 2

1:15,000 Scale at A3

Metres

0 500 1,000

On-site Groundwater Monitoring Network

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

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Aerial Imagery Supplied by Bing Satelite Imagery

FIGURE 3

1:20,000 Scale at A3

Metres

0 500 1,000

Off-site Groundwater Monitoring Well Locations

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

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Date: 2024-05-22 | Project: DEF19008
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Map: DEF19008-GS-0426-Offsite_GWBoreLocations_ES.mxd 02
Aerial Imagery Supplied by Bing Satelite Imagery

FIGURE 4

1:15,000 Scale at A3

Metres

0 500 1,000

On-site Surface Water and Sediment Monitoring Network

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

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Map Produced by Cardno now Stantec
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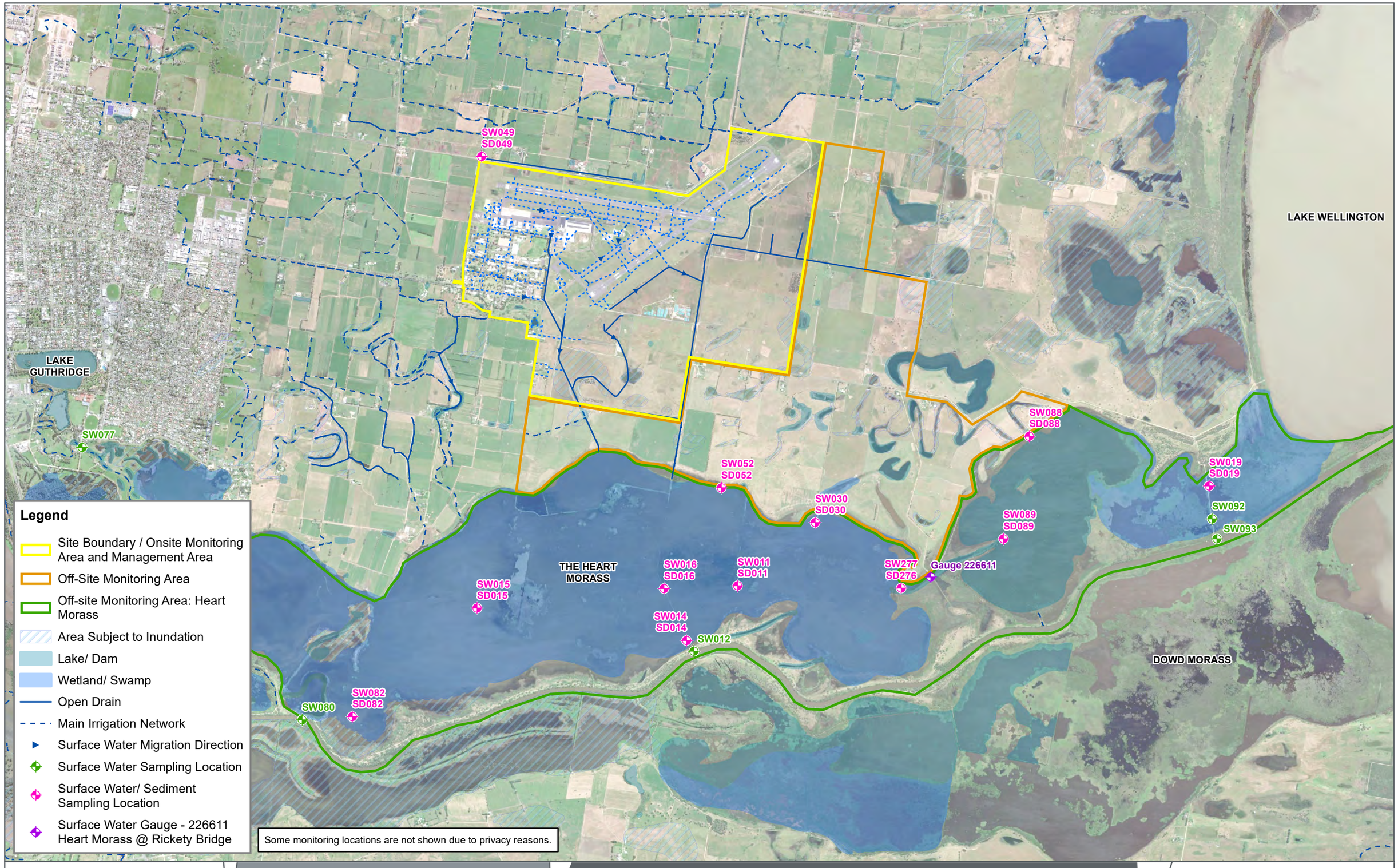

FIGURE 5

1:37,000 Scale at A3

Metres

0 1,000 2,000

Off-site Surface Water & Sediment Locations

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

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Aerial Imagery Supplied by Bing Satelite Imagery

MW733 5.581
MW607 5.329
MW734 5.838
MW609 5.688
MW609 5.65
MW306 5.776
MW726 5.615
MW612 5.159
MW326 5.515
MW724 5.197
MW728 5.567
MW725 5.524
MW722 4.31
MW738 3.91
MW603 4.147
MW325 2.318
MW636 2.052
MW713 1.753
MW730 2.798
MW719 3.071
MW720 3.406
MW718 1.88
MW716 1.582
MW715 1.402
MW615 1.951
MW616 1.673
MW620 1.795
MW624 1.73
MW201 1.754
MW622 1.758
MW626 1.647
MW617 1.812
MW711 2.493
MW709 1.737
MW618 1.689
MW304 1.587
MW702 1.644
MW708 1.32
MW712 1.589
MW707 1.231
MW735 1.183
MW316 1.068
MW703 1.764
MW203 1.786
MW202 1.773
MW623 1.738
MW625 1.695
MW627 1.684
MW619 1.666
MW628 1.581
MW629 1.616
5m
4m
3m
2m

Some monitoring locations are not shown due to privacy reasons.
*Top of casing elevation data not available

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Groundwater Flow Direction
- Groundwater Elevation Contour (mAHD)
- Shallow Monitoring Well - Upper Alluvial Aquifer

FIGURE 6A

1:14,000 Scale at A3

0 500 1,000

Groundwater Elevation Contours – Shallow Aquifer (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
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Aerial Imagery Supplied by Metromap (September, 2023)

MW010
5.42

4.5m

3.5m

2.5m

1.5m

MW323
1.754

MW324
1.757

MW704
1.829

MW310
1.599

MW739
1.888

MW740
1.31

MW741
0.656

MW701
1.177

MW318
1.178

MW008
1.658

Some monitoring locations are not shown due to privacy reasons.
*Top of casing elevation data not available

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Groundwater Flow Direction
- Groundwater Elevation Contour (mAHD)
- Intermediate Monitoring Well - Lower Alluvial Aquifer

FIGURE 6B

1:14,000 Scale at A3

Metres

0 500 1,000

Groundwater Elevation Contours – Intermediate Aquifer (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

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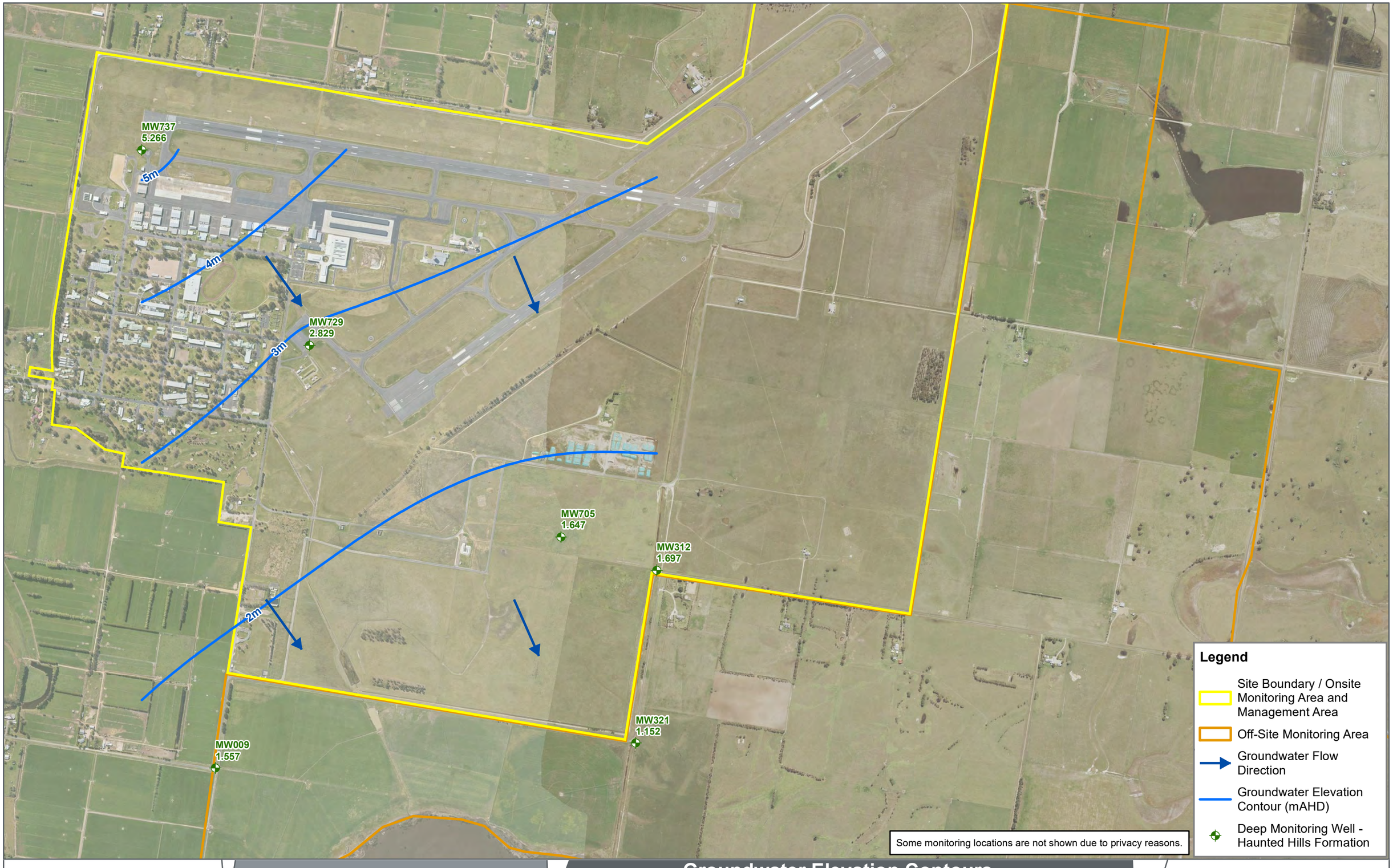

FIGURE 6C

1:14,000 Scale at A3

Metres

0 500 1,000

Groundwater Elevation Contours – Deep Aquifer (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

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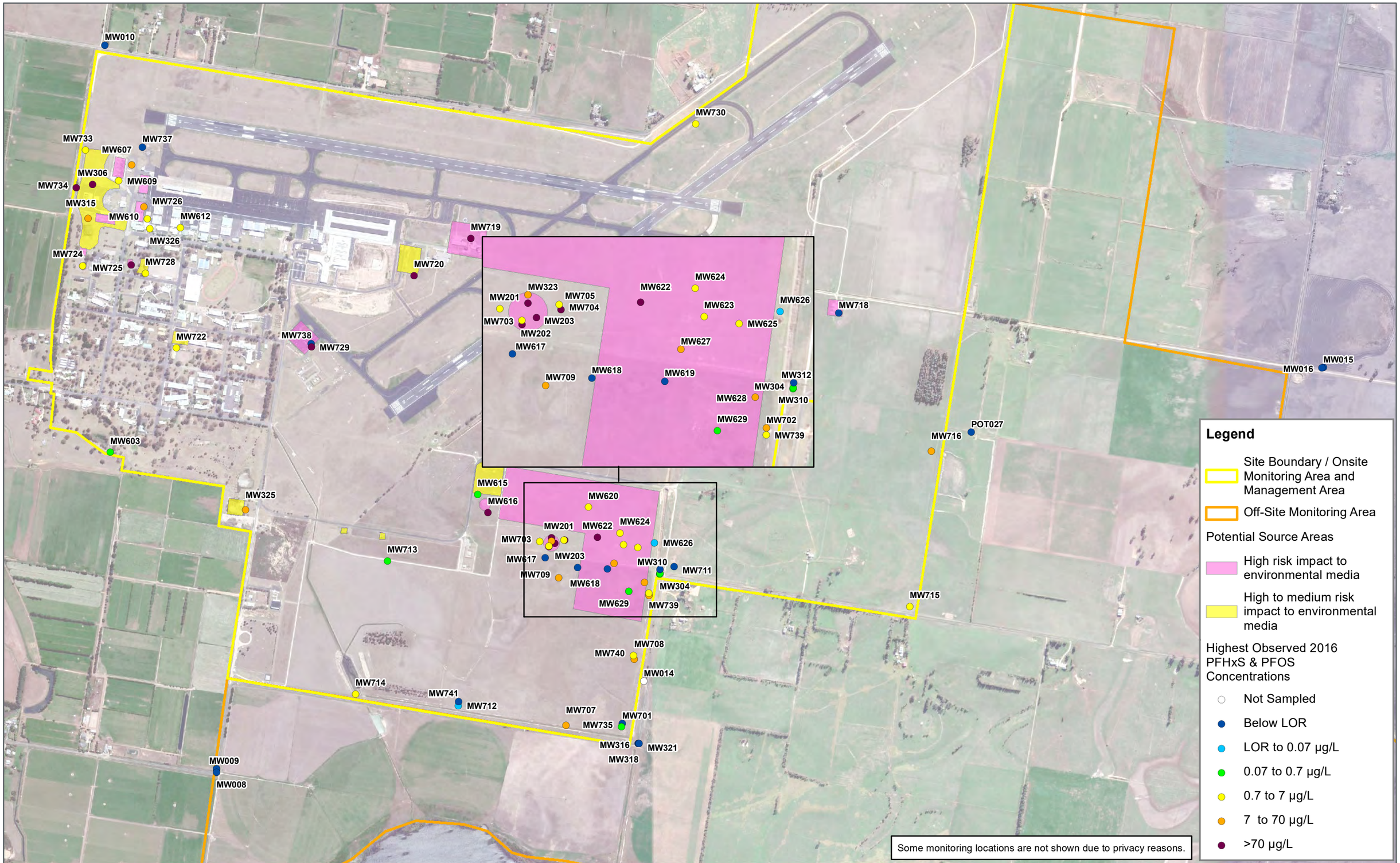

FIGURE 7A

1:14,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Groundwater (2016)

ONGOING MONITORING REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

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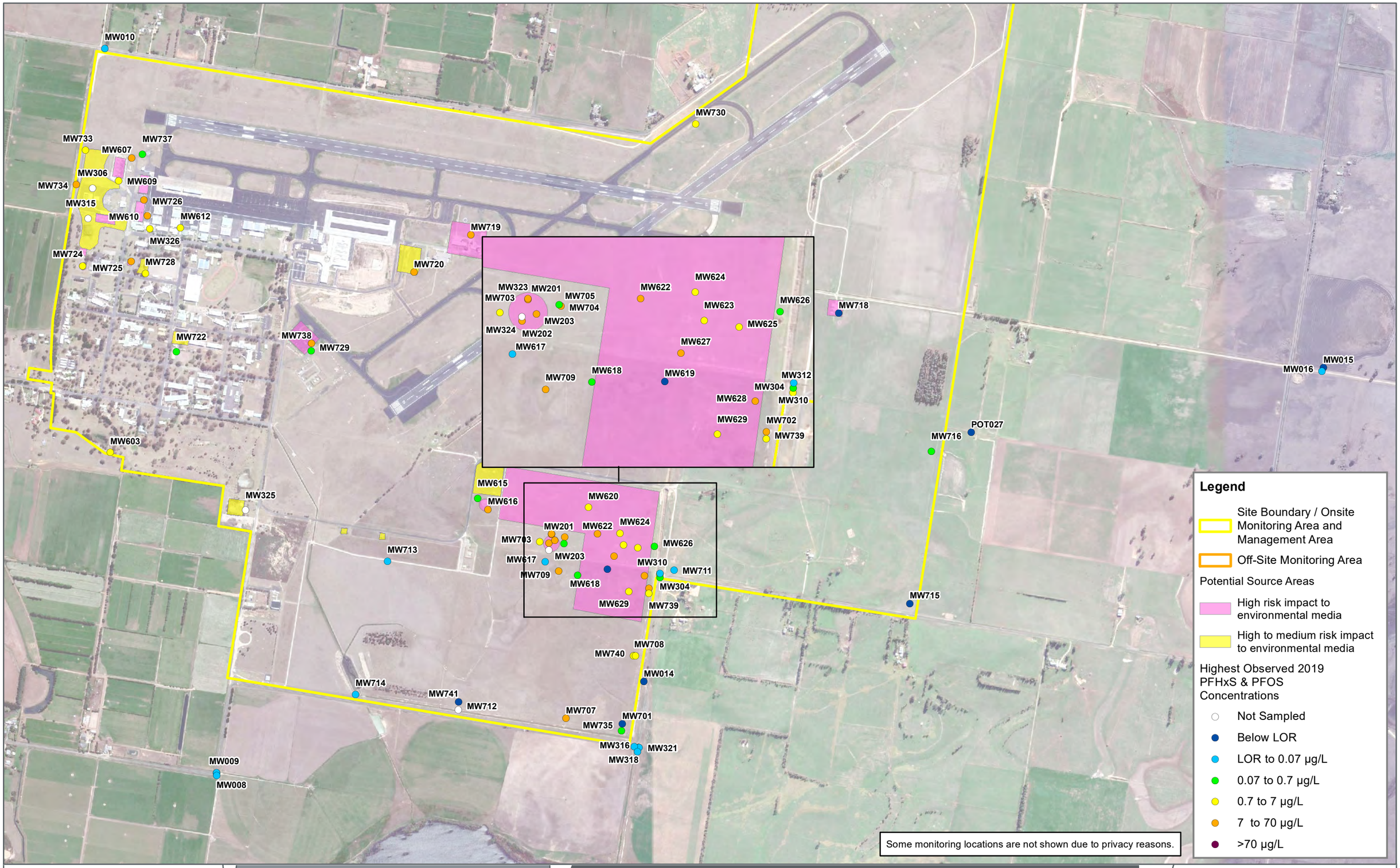

FIGURE 7B

1:14,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Groundwater (2019)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

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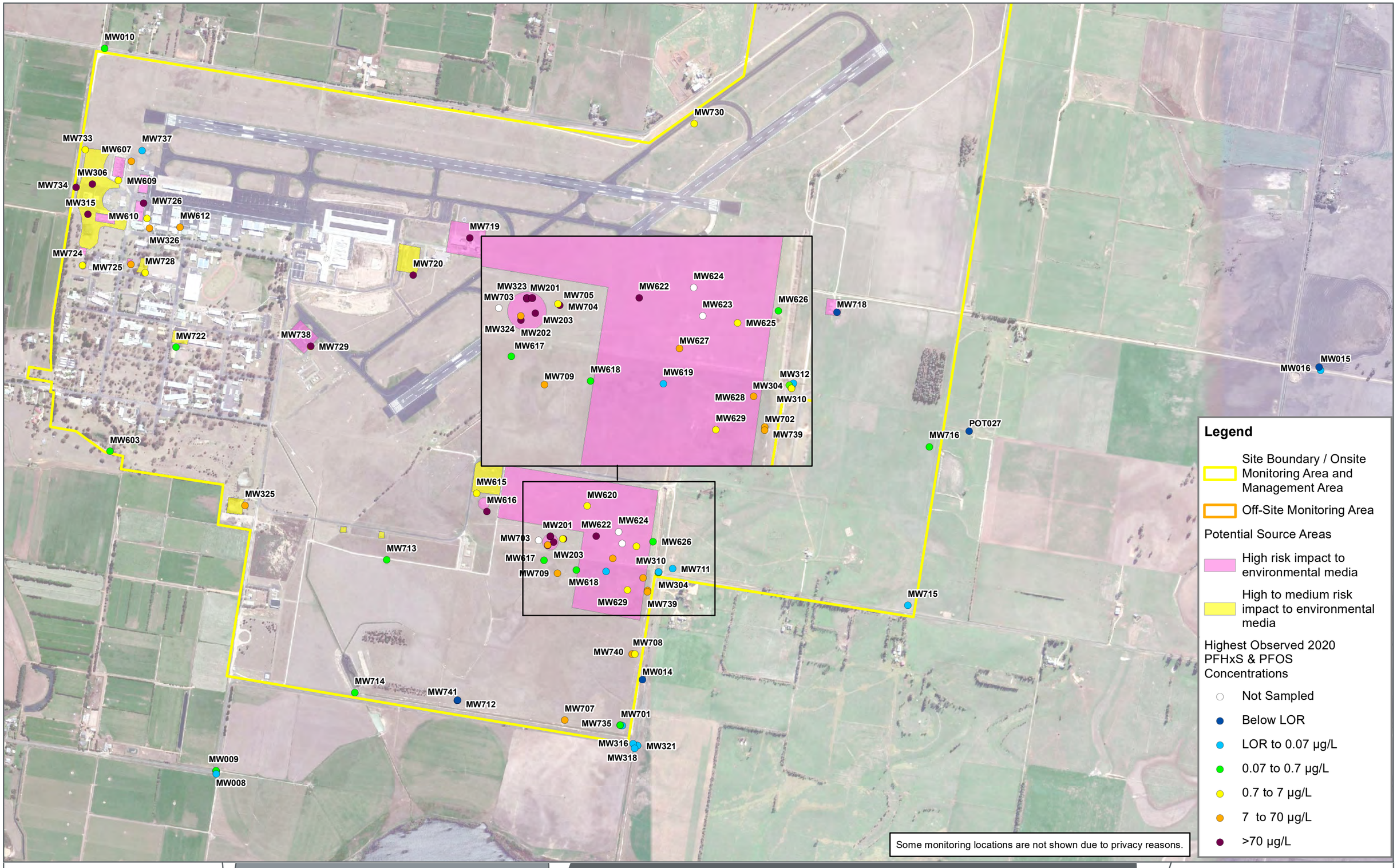

FIGURE 7C

1:14,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Groundwater (2020)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

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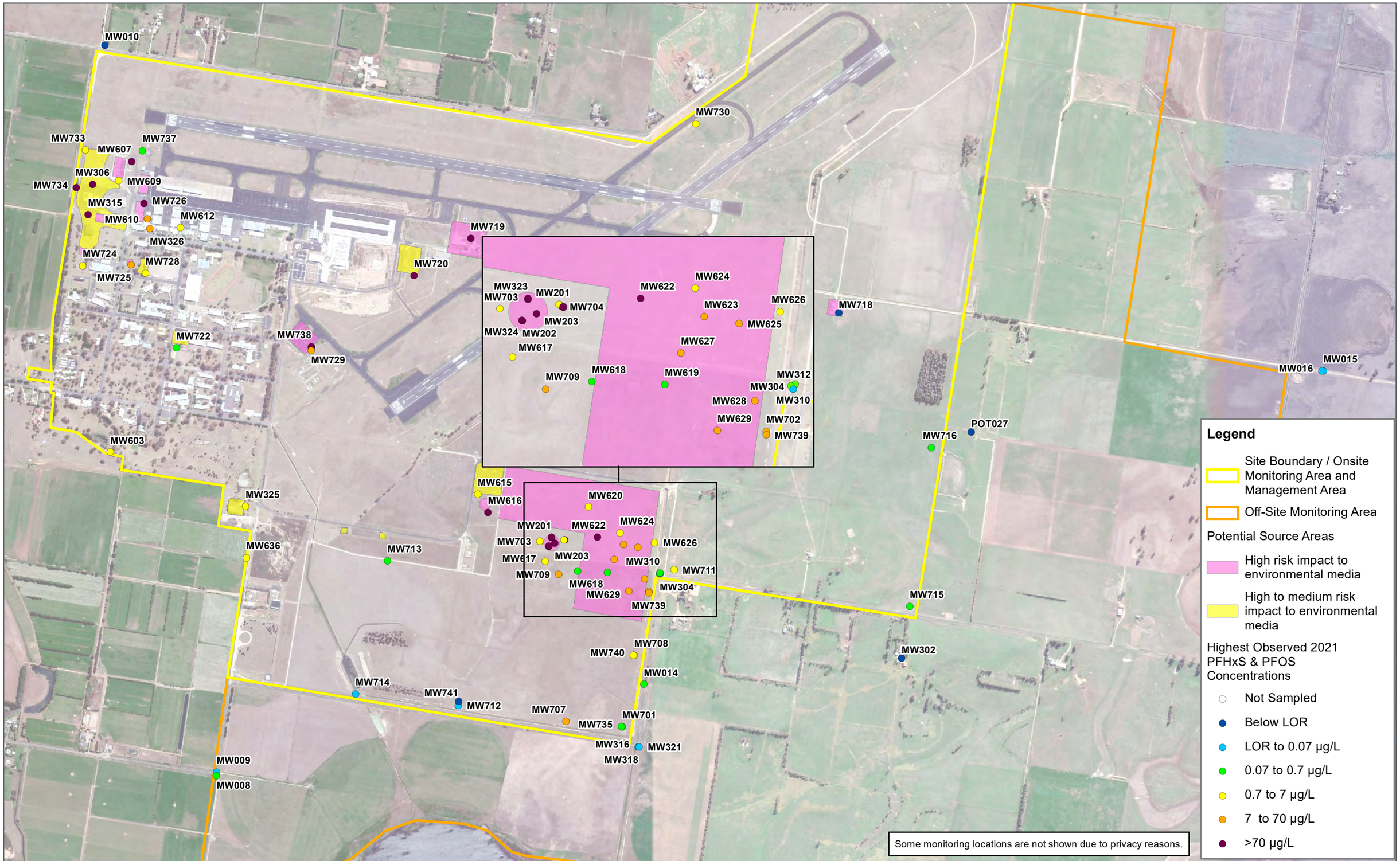

FIGURE 7D

1:14,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Groundwater (2021)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

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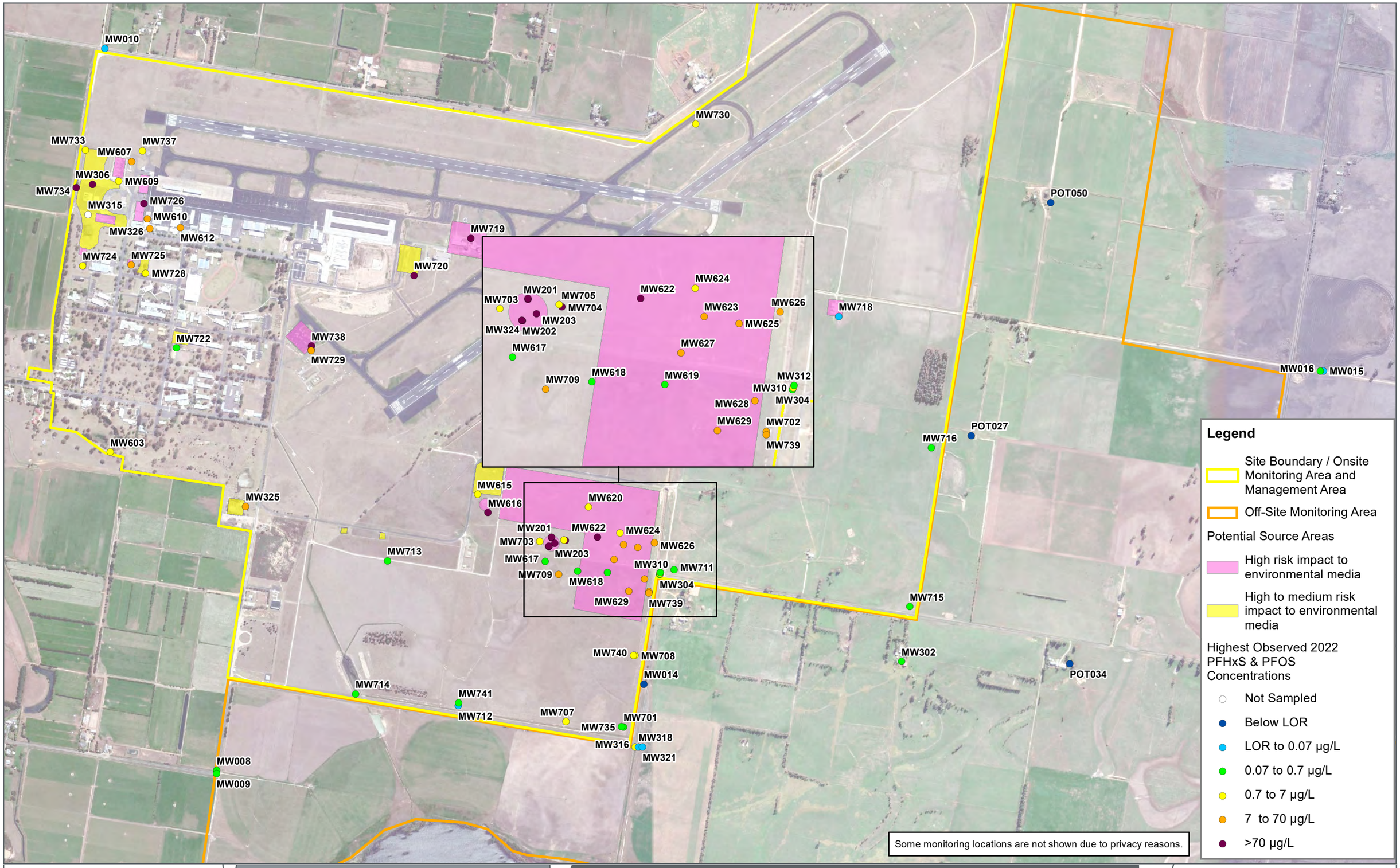

FIGURE 7E

1:14,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Groundwater (2022)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

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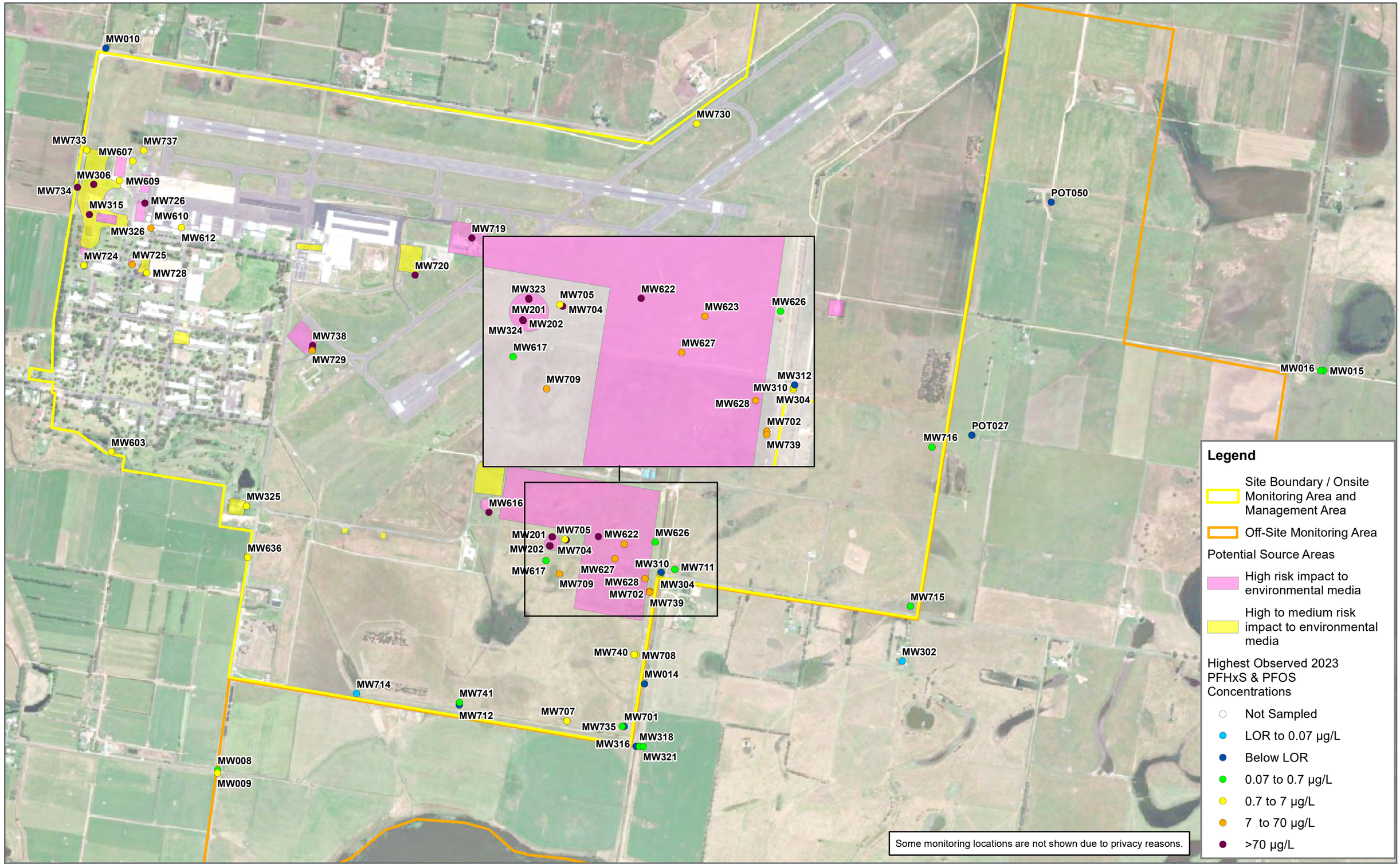

FIGURE 7F

1:14,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Groundwater (2023)

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

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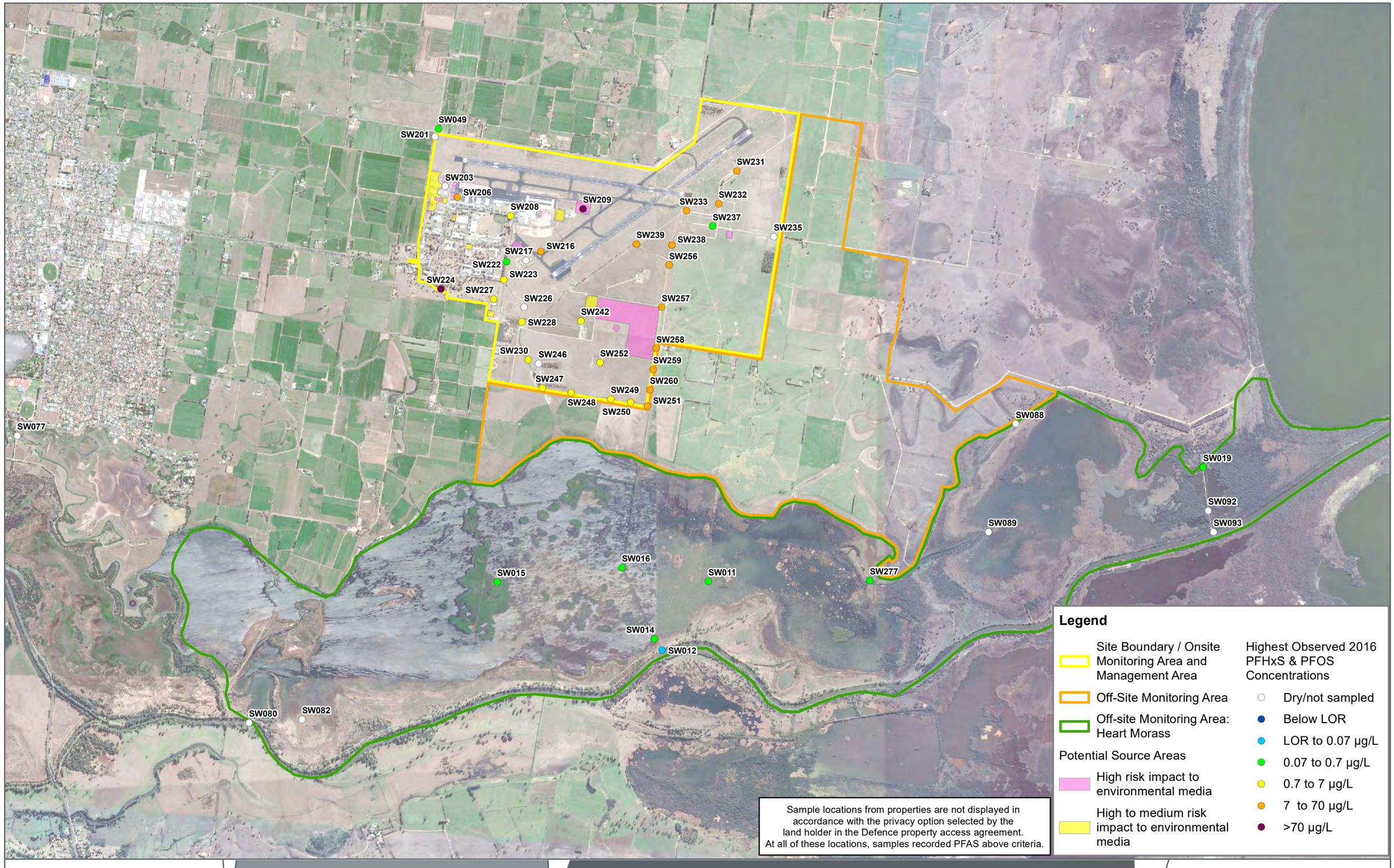

FIGURE 8A

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Surfacewater (2016)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
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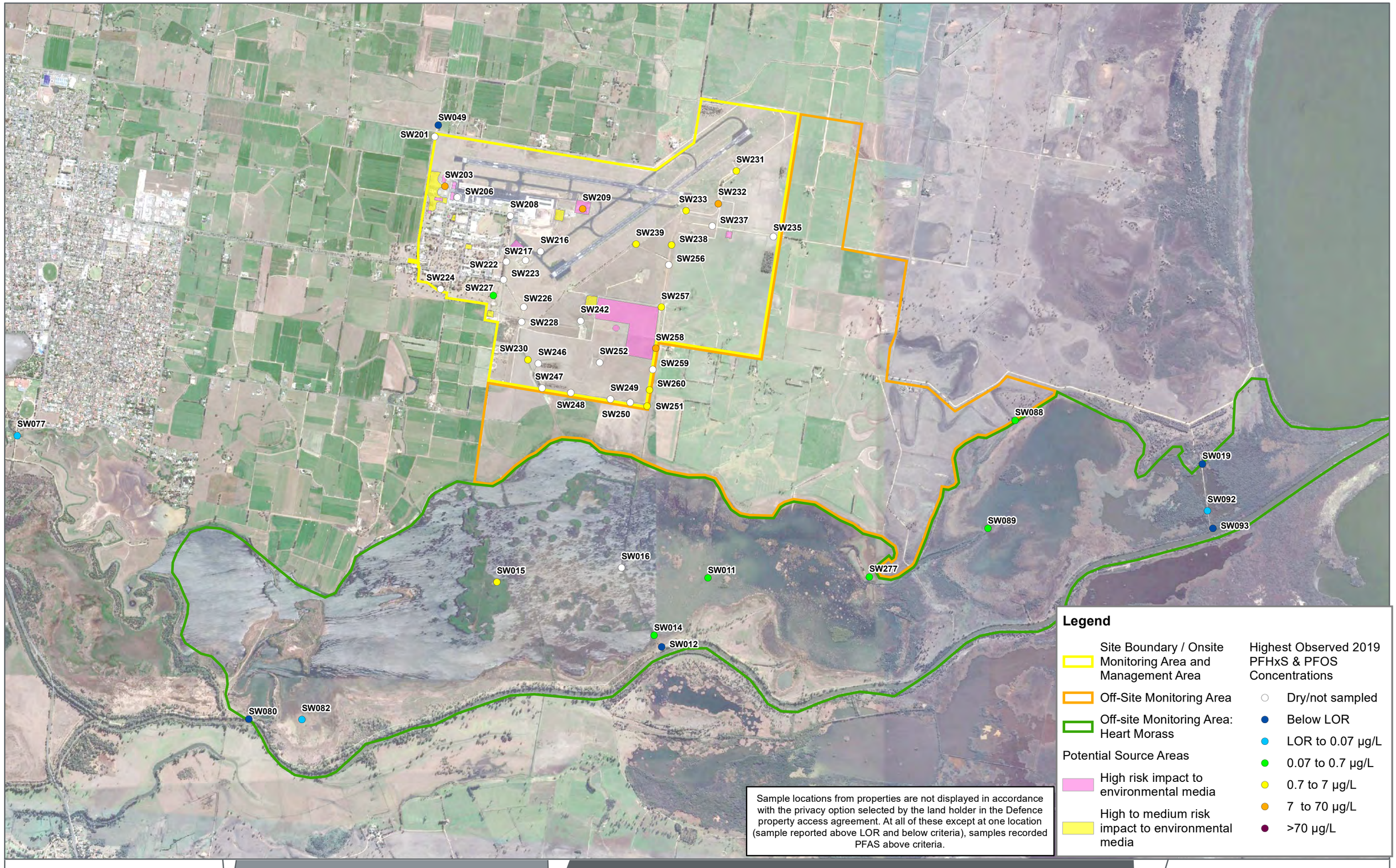

FIGURE 8B

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Surfacewater (2019)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
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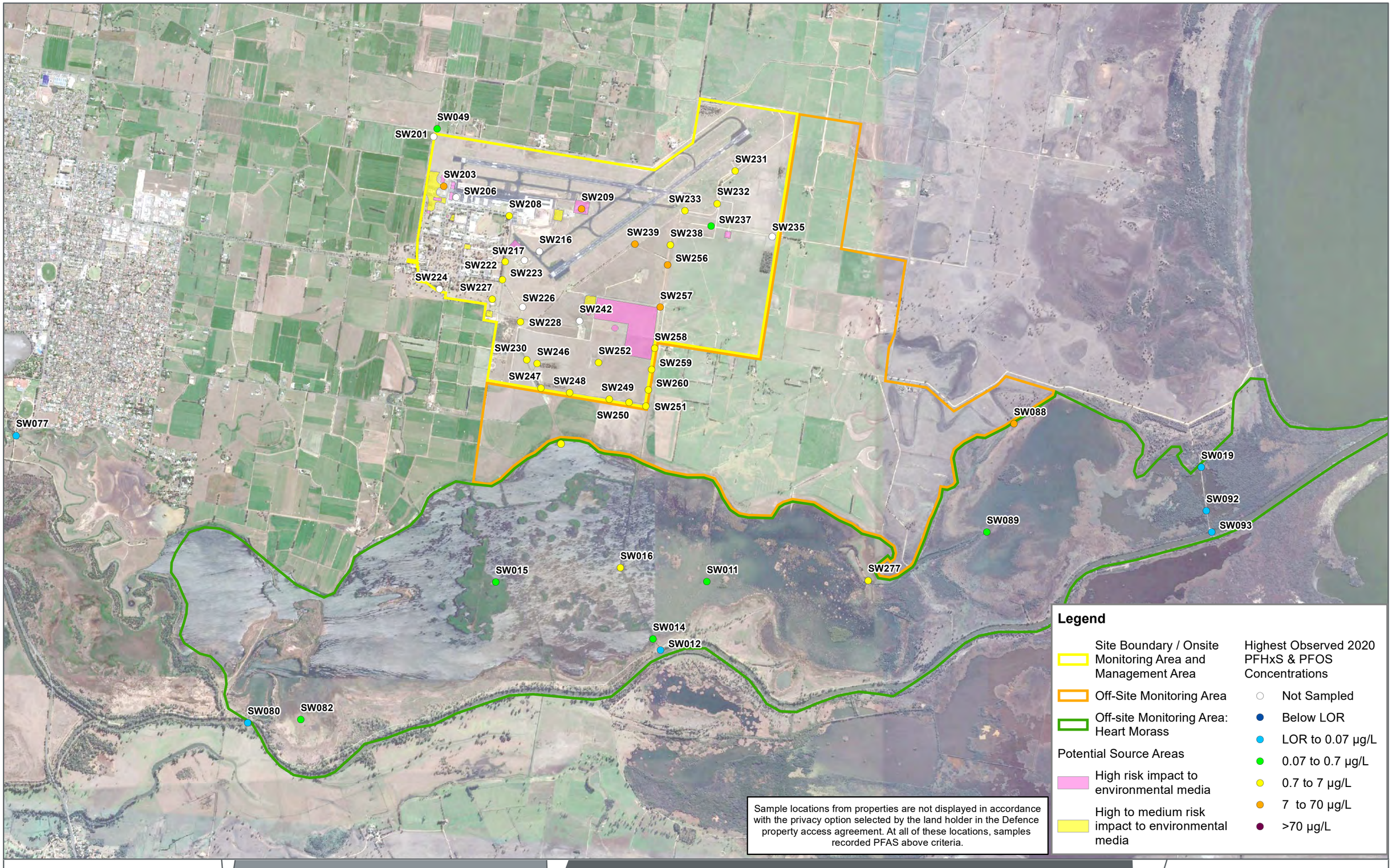

FIGURE 8C

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Surfacewater (2020)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0117-SumPFHxS&PFOS_SW_2020_ES.mxd 03
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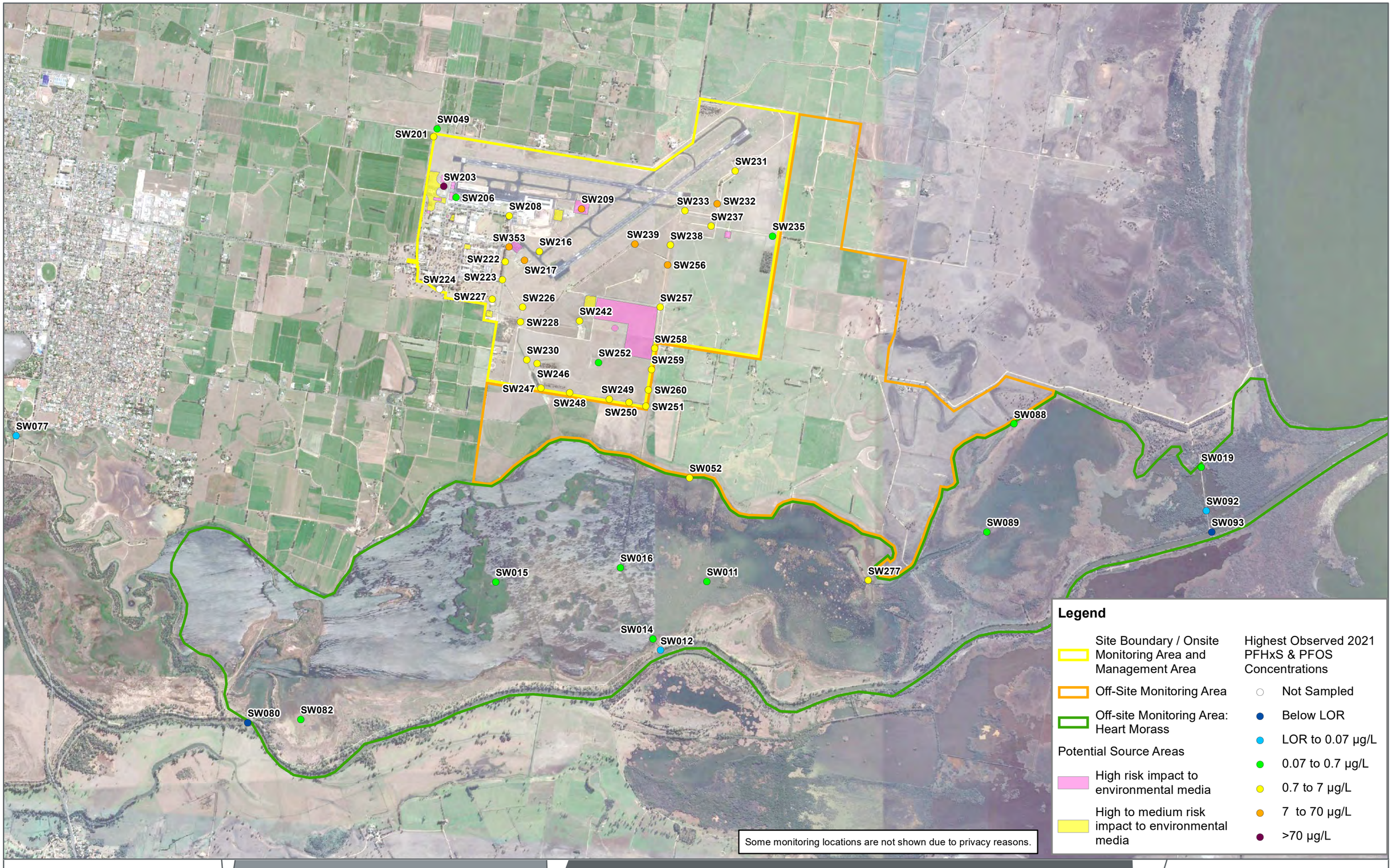

FIGURE 8D

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Surface Water (2021)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0219-SumPFHxS&PFOS_SW_2021_ES.mxd 03
Aerial Imagery Supplied by Google Earth (November, 2018)

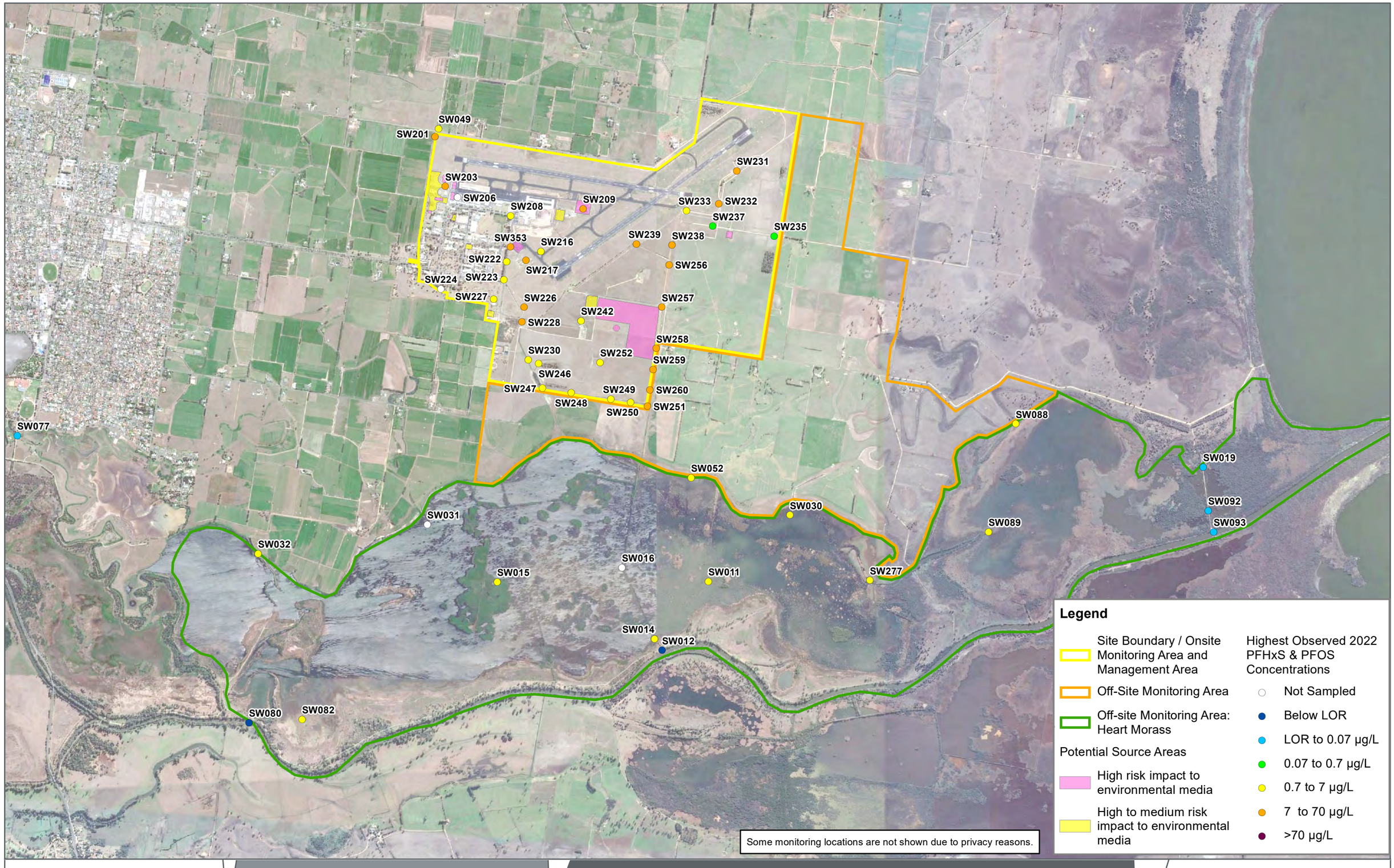

FIGURE 8E

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Surface Water (2022)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0319-SumPFHxS&PFOS_SW_2022_ES.mxd 02
Aerial Imagery Supplied by Google Earth (November, 2018)

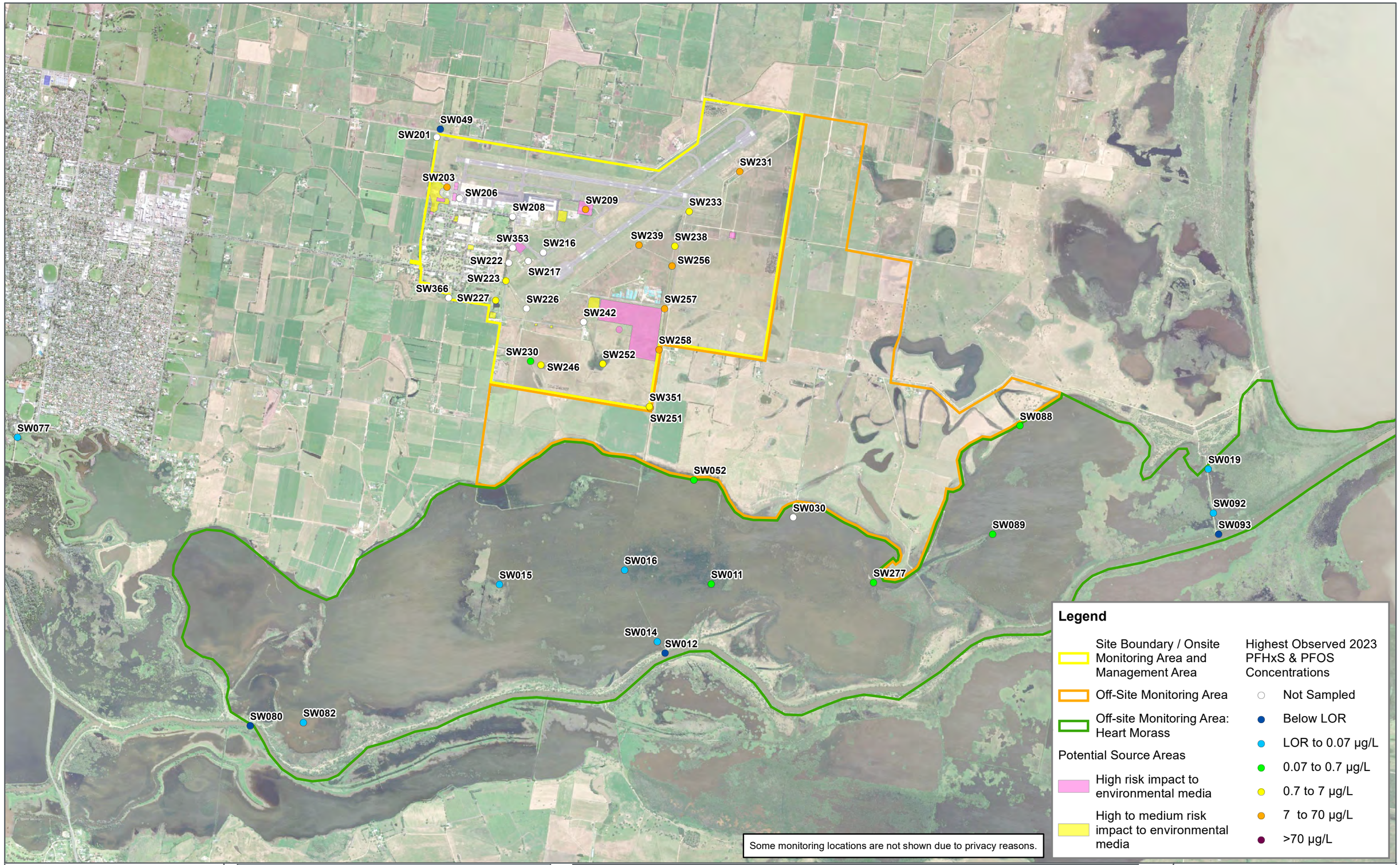

FIGURE 8F

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Surface Water (2023)

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-02-13 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0430-SumPFHxS&PFOS_SW_2023_ES.mxd 01
Aerial Imagery Supplied by Bing Satelite Imagery

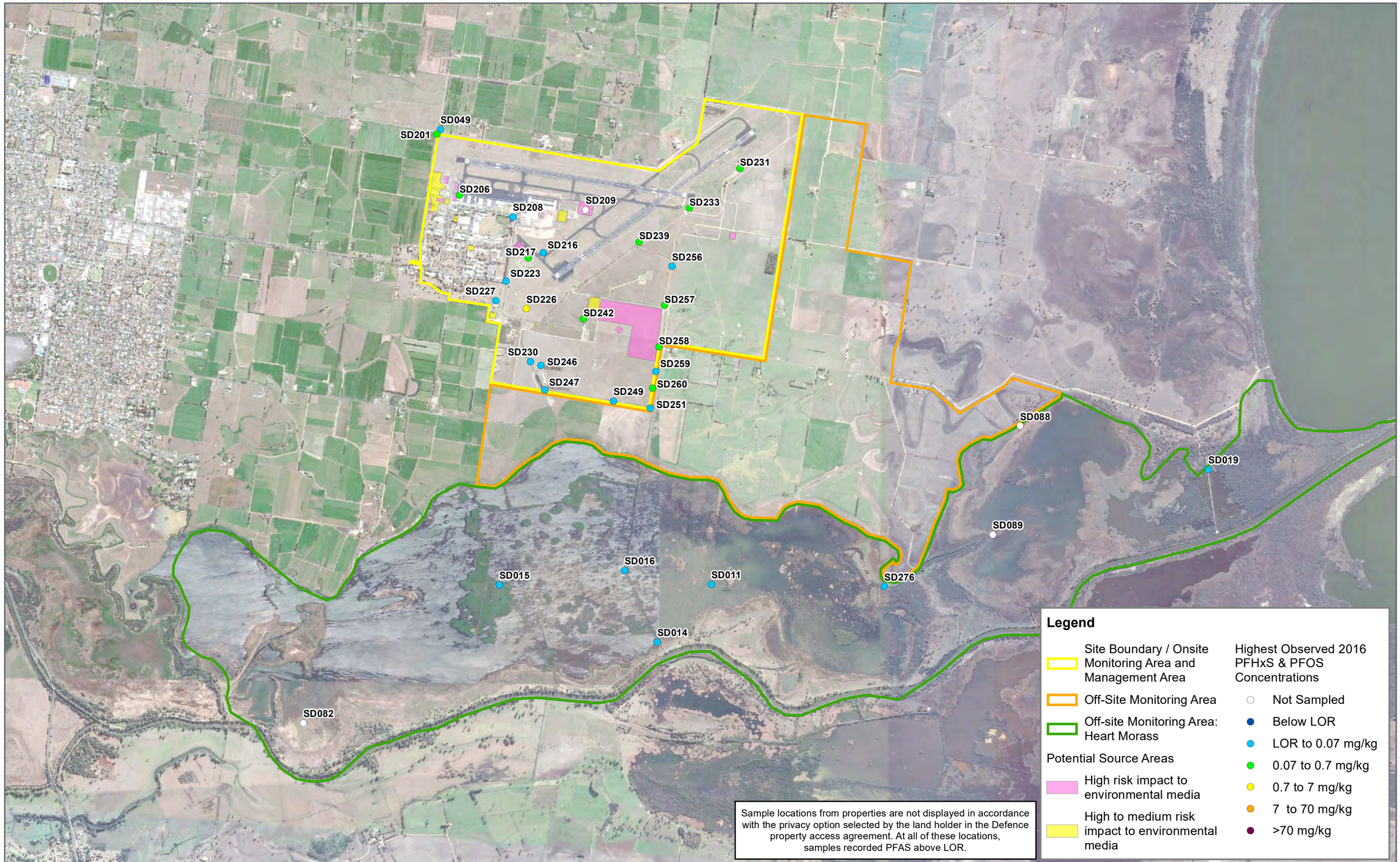

FIGURE 9A

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Sediment (2016)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0118-SumPFHxS&PFOS_SED_2016_ES.mxd 03
Aerial Imagery Supplied by Google Earth (November, 2018)

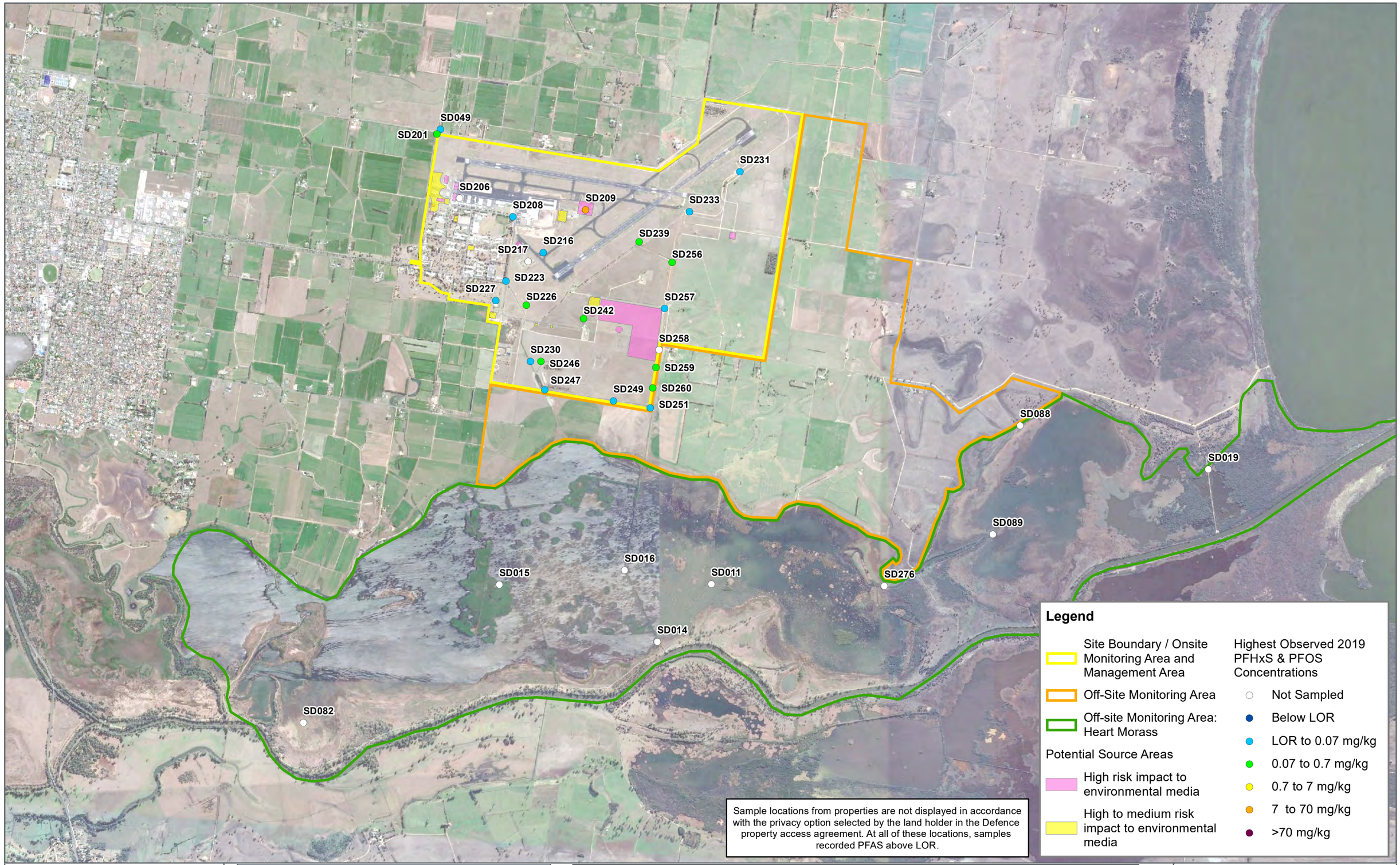

FIGURE 9B

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Sediment (2019)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0119-SumPFHxS&PFOS_SED_2019_ES.mxd 03
Aerial Imagery Supplied by Google Earth (November, 2018)

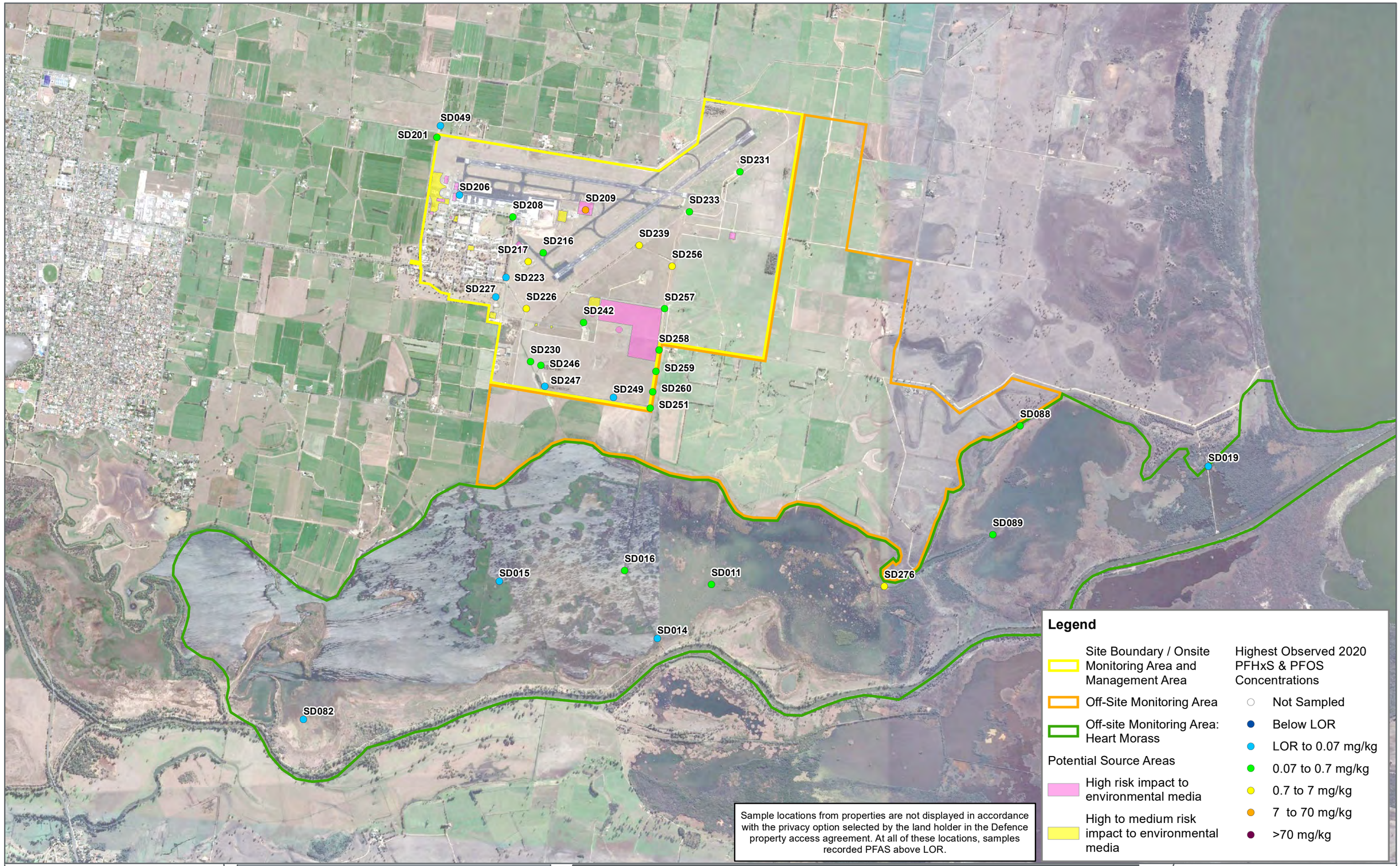

FIGURE 9C

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Sediment (2020)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0120-SumPFHxS&PFOS_SED_2020_ES.mxd 03
Aerial Imagery Supplied by Google Earth (November, 2018)

SD049
SD201
SD231
SD206
SD209
SD208
SD233
SD239
SD216
SD217
SD256
SD223
SD227
SD226
SD257
SD242
SD258
SD230
SD246
SD259
SD247
SD249
SD260
SD251
SD088
SD019
SD052
SD089
SD016
SD015
SD011
SD276
SD014
SD082

Some monitoring locations are not shown due to privacy reasons.

Legend

Site Boundary / Onsite Monitoring Area and Management Area

Off-Site Monitoring Area

Off-site Monitoring Area: Heart Morass

Potential Source Areas

High risk impact to environmental media

High to medium risk impact to environmental media

Highest Observed 2021 PFHxS & PFOS Concentrations

- Not Sampled
- Below LOR
- LOR to 0.07 mg/kg
- 0.07 to 0.7 mg/kg
- 0.7 to 7 mg/kg
- 7 to 70 mg/kg
- >70 mg/kg

FIGURE 9D

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Sediment (2021)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0220-SumPFHxS&PFOS_SED_2021_ES.mxd 03
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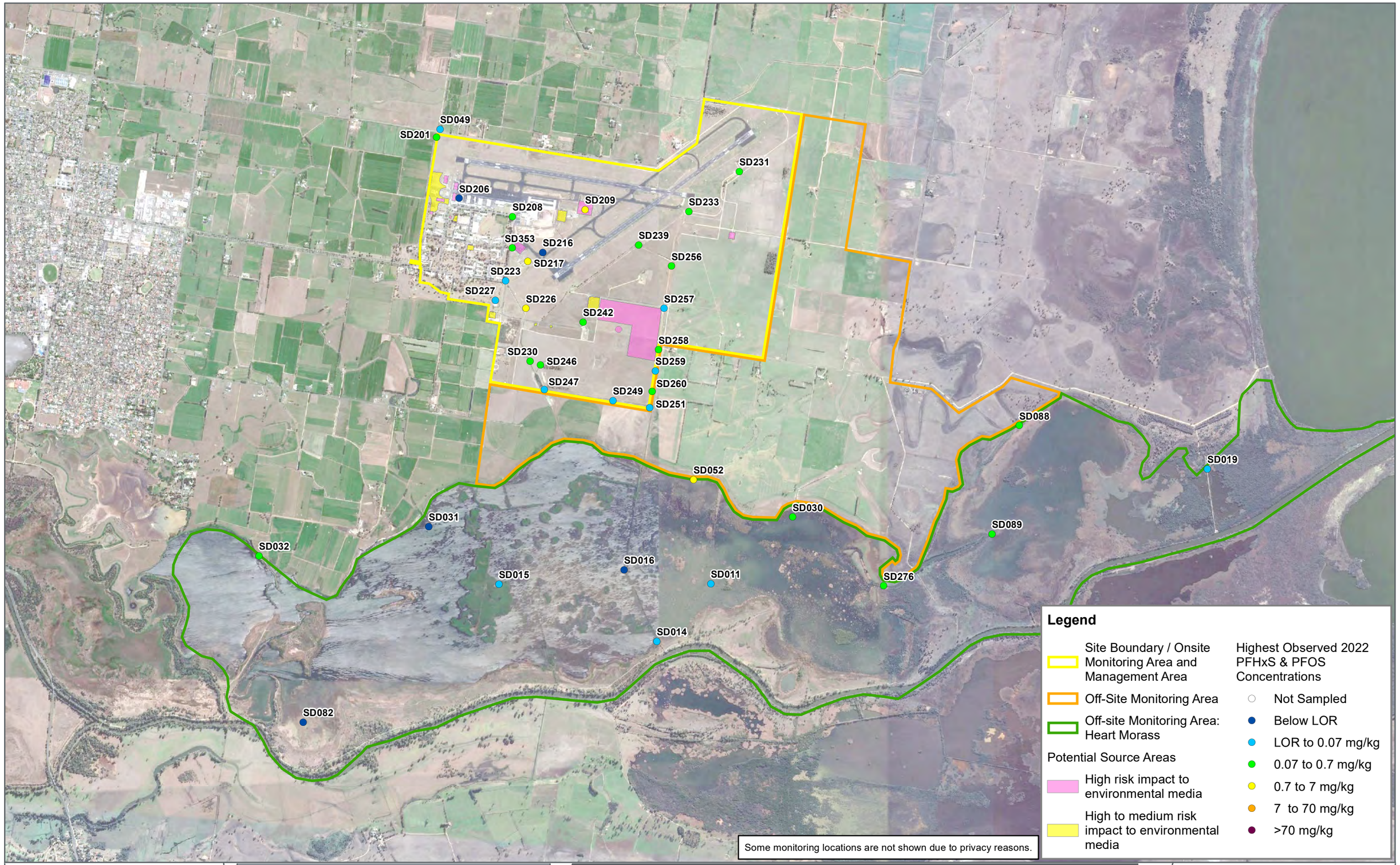

FIGURE 9E

1:35,000 Scale at A3

Metres

0 500 1,000

Sum of PFHxS & PFOS in Sediment (2022)

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-28 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0320-SumPFHxS&PFOS_SED_2022_ES.mxd 01
Aerial Imagery Supplied by Google Earth (November, 2018)

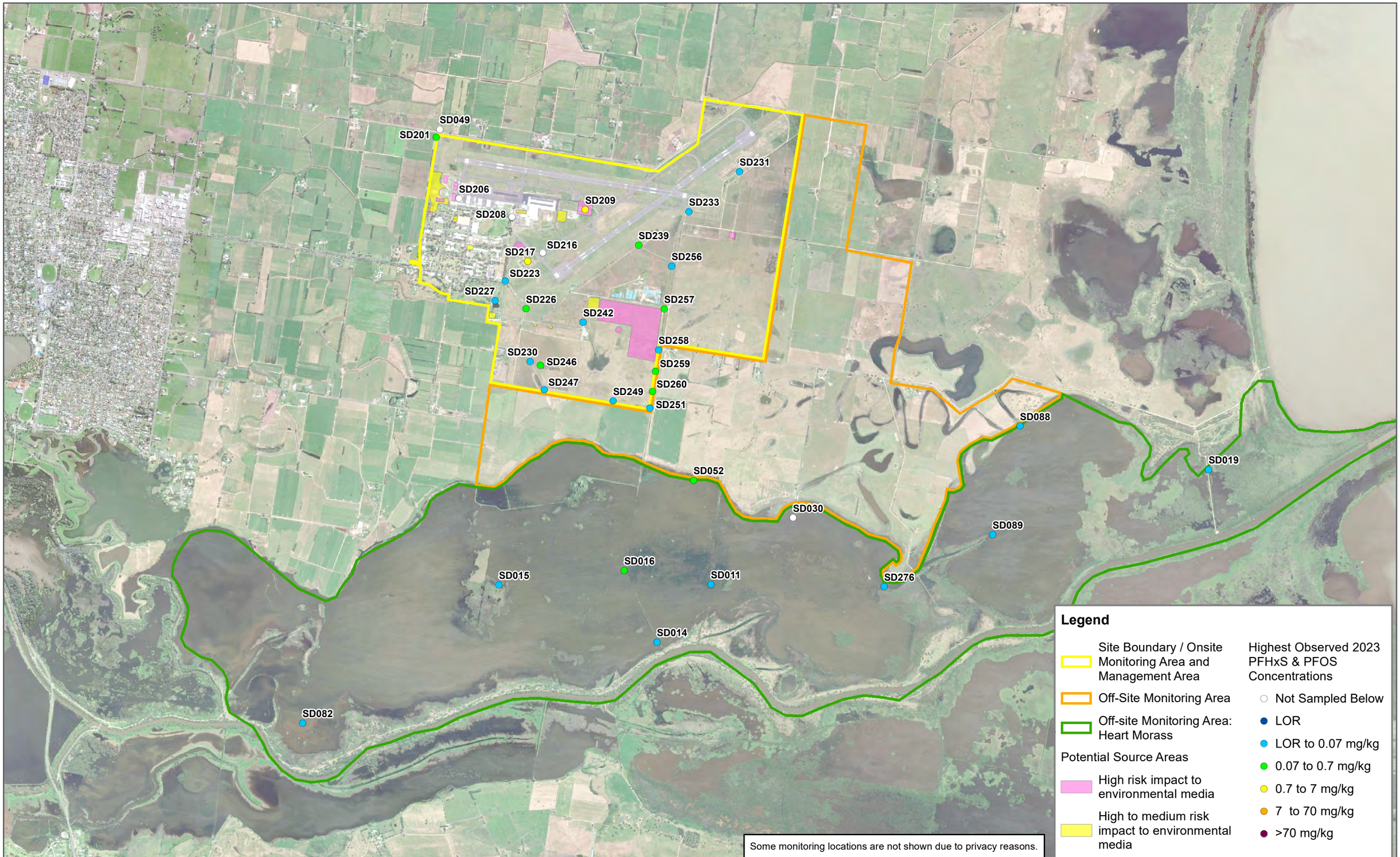

FIGURE 9F

1:35,000 Scale at A3

Metres

0 1,000 2,000

Sum of PFHxS & PFOS in Sediment (2023)

ONGOING MONITORING REPORT (2023)
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-05-22 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0431-SumPFHxS&PFOS_SED_2023_ES.mxd 02
Aerial Imagery Supplied by Bing Satelite Imagery

APPENDIX

B

TABLES

Cardno

now

Stantec

Location	Event No.	Property	Easting	Northing	Monitoring Date	Bore Depth (m)[1]	Top of casing (mAHD)	SWL (bTOC)	SWL (mAHD)	Top of Hydrasleeve (bTOC)[2]	Other Observations on Bore/Site[2]	Temp (C°)	DO (mg/L)	EC (µS/Cm)	TDS (mg/L)	pH	Eh (mV)	Aquifer	Sampling Method
MW008	E13	Off-site	511446.21	5780968.67	14/11/23	10.251	4.580	2.922	1.658	9.403	Cloudy, low turbidity	15.4	1.49	3857	2507.05	6.97	-194.8	Intermediate	Hydrasleeve
MW009	E13	Off-site	511446.77	5780970.11	14/11/23	13.131	4.830	3.273	1.557	12.237	Cloudy, low turbidity	15.7	0.87	2621	1703.65	6.92	-145	Haunted Hills	Hydrasleeve
MW010	E13	Off-site	511002.03	5783849.03	14/11/23	13.652	6.200	0.780	5.420	12.584	Clear, slightly cloudy at bottom of sleeve, low turbidity	18.6	1.22	7674	4988.1	6.66	-37.8	Intermediate	Hydrasleeve
MW014	E13	Off-site	513147.50	5781319.00	14/11/23	188.000	4.980	2.574	2.406	15.703	Clear, no turbidity	16.1	0.93	728	473.2	6.64	-229	Boisedale (artesian)	Hydrasleeve
MW015	E13	Off-site	515852.16	5782566.01	14/11/23	5.500	NM	0.565	-	4.747	Clear, no turbidity	16.1	1.4	10062	6540.3	7.13	-298.6	Shallow	Hydrasleeve
MW016	E13	Off-site	515845.81	5782565.37	14/11/23	15.000	NM	1.323	-	13.834	Cloudy with suspended black particles, strong sulfuric odour, medium turbidity	17.2	0.97	7060	4589	7.11	-291.3	Intermediate	Hydrasleeve
MW201	E13	On-site	512779.63	5781903.29	13/11/23	5.500	5.100	3.346	1.754	4.876	Cloudy, light brown, low turbidity	15.1	0.6	5188	3372.2	7.48	-128.9	Shallow	Hydrasleeve
MW202	E13	On-site	512770.18	5781868.28	13/11/23	5.168	4.790	3.017	1.773	4.000	Pale brown, high turbdity	15.6	1.76	3790	2463.5	7.09	107	Shallow	Hydrasleeve
MW203	E13	On-site	512793.21	5781879.87	13/11/23	5.478	4.970	3.184	1.786	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW302	E13	Off-site	514173.29	5781409.25	17/11/23	7.300	NM	4.553	-	7.253	Parameter collection equipment malfunction	-	-	-	-	-	-	Shallow	Hydrasleeve
MW304	E13	Off-site	513211.03	5781757.69	14/11/23	4.845	3.580	1.993	1.587	NM	Hydrasleeves previously deployed have been tampered with. HS redeployed and sampled at later date	15.7	1.58	1257	817.05	7.59	-270	Shallow	Hydrasleeve
MW306	E13	On-site	510953.65	5783307.78	13/11/23	5.366	7.400	1.624	5.776	4.230	Cloudy, medium turbidity, no odour	14.5	1.39	2799	1819.35	7.05	-15.3	Shallow	Hydrasleeve
MW310	E13	Off-site	513211.56	5781759.69	14/11/23	8.226	3.460	1.861	1.599	NM	Hydrasleeves previously deployed have been tampered with. HS redeployed and sampled at later date	14.6	0.49	5088	3307.2	7.1	-279.2	Intermediate	Hydrasleeve
MW312	E13	Off-site	513212.35	5781761.69	14/11/23	24.526	3.490	1.793	1.697	23.900	Clear, no turbidity	15.8	1.03	1473	957.45	6.2	-1.1	Haunted Hills	Hydrasleeve
MW315	E13	On-site	510935.79	5783187.79	13/11/23	5.900	NM	1.892	-	4.650	Clear, low turbidity	15.2	1.33	9713	6984.25	7.14	121.6	Shallow	Hydrasleeve
MW316	E13	Off-site	513124.91	5781069.99	14/11/23	5.500	4.250	3.182	1.068	4.400	Clear, low turbidity	16.8	1.3	2947	1915.55	6.45	29.2	Shallow	HandBailing
MW318	E13	Off-site	513127.04	5781069.72	14/11/23	9.940	4.230	3.052	1.178	8.810	Clear, no turbidity	16.5	0.76	2425	1576.25	6.82	-12.8	Intermediate	Hydrasleeve
MW319	E13	Off-site	-	-	21/11/23	-	NM	-	-	NM	Clear, no turbidity	18.3	4.44	2270	1475.5	6.58	-143	Shallow	Other
MW320	E13	Off-site	-	-	16/11/23	-	-	-	-	NM	Bore dry	-	-	-	-	-	-	Shallow	-
MW321	E13	Off-site	513128.94	5781069.49	14/11/23	22.320	3.860	2.708	1.152	21.430	Clear, no turbidity	18.7	1.46	2601	1690.65	6.31	-50.6	Haunted Hills	Hydrasleeve
MW323	E13	On-site	512779.56	5781904.77	13/11/23	7.313	5.010	3.256	1.754	6.121	Clear, no turbidity, no odour	15.7	3.72	4655	3025.75	7.62	-73.3	Intermediate	Hydrasleeve
MW324	E13	On-site	512769.45	5781869.34	13/11/23	8.580	4.940	3.183	1.757	7.700	Clear, no turbidity	15.6	1.69	5185	3370.25	7.24	108.1	Intermediate	Hydrasleeve
MW325	E13	On-site	511562.23	5782027.05	13/11/23	5.120	5.920	3.602	2.318	NM	No hydrasleeve, bailed dry and sampled when recovered. Light brown, low turbidity	17	3.52	946	614.9	7.12	80.7	Shallow	HandBailing
MW326	E13	On-site	511181.13	5783132.90	13/11/23	3.570	6.610	1.095	5.515	2.460	Maintenance, gatic rethreaded. Clear, low turbidity	17.1	1.49	3131	2035.15	7.47	82.1	Shallow	Hydrasleeve
MW603	E13	On-site	511024.22	5782242.35	14/11/23	6.570	6.510	2.363	4.147	5.460	Clear, low turbidity, no odour	16.6	1.56	9670	6285.5	6.89	-86.2	Shallow	Hydrasleeve
MW607	E13	On-site	511109.61	5783399.84	13/11/23	4.702	6.660	1.331	5.329	4.120	Light brown, medium turbidity, no odour	18.3	1.18	610	396.5	7	-50.9	Shallow	Hydrasleeve
MW609	E13	On-site	511057.22	5783321.93	13/11/23	5.204	6.480	0.830	5.650	4.790	Clear, no turbidity, minimal sediment in bottom of sleeve	18	1.16	2454	1595.1	7.13	-62.1	Shallow	Hydrasleeve
MW610	E13	On-site	511171.33	5783170.65	13/11/23	-	-	-	-	-	Well cap unable to be opened, HS not replaced or sampled	-	-	-	-	-	-	Shallow	Hydrasleeve
MW612	E13	On-site	511303.62	5783135.87	13/11/23	6.400	6.490	1.331	5.159	5.450	Clear, low turbidity	18.8	1.87	4058	2637.7	7.41	100.8	Shallow	Hydrasleeve
MW615	E13	On-site	512486.20	5782074.52	13/01/23	6.418	5.740	3.789	1.951	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW616	E13	On-site	512527.20	5782002.05	13/11/23	6.430	5.890	4.217	1.673	5.280	Clear, low turbidity, suspended solids at bottom of sleeve	15	2.09	564	366.6	7.08	120.4	Shallow	Hydrasleeve
MW617	E13	On-site	512754.09	5781809.30	14/11/23	5.943	4.980	3.168	1.812	5.627	Brown, high turbidity	16	3.63	4464	2901.6	7.02	117.3	Shallow	Hydrasleeve
MW618	E13	On-site	512883.53	5781769.43	13/11/23	5.660	4.770	3.081	1.689	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW619	E13	On-site	513002.26	5781764.32	14/11/23	6.023	4.390	2.724	1.666	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW620	E13	On-site	512927.08	5782024.34	13/11/23	6.024	5.430	3.635	1.795	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW622	E13	On-site	512962.96	5781904.83	13/11/23	4.990	4.700	2.942	1.758	3.850	Cloudy, low turbidity	15.6	1.4	4280	2782	6.99	-35.3	Shallow	Hydrasleeve
MW623	E13	On-site	513066.42	5781875.50	13/11/23	4.910	4.890	3.152	1.738	3.800	Light brown, medium turbidity, no odour	15	0.7	3032	1970.8	6.8	-92.7	Shallow	Hydrasleeve
MW624	E13	On-site	513052.11	5781921.56	13/11/23	4.640	4.850	3.120	1.730	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	HandBailing
MW625	E13	On-site	513123.30	5781863.96	13/11/23	5.598	4.910	3.215	1.695	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW626	E13	On-site	513189.85	5781883.44	13/11/23	5.510	4.700	3.053	1.647	4.370	Brown, high turbidity, no odour	15.2	1.17	4654	3025.1	6.76	74	Shallow	Hydrasleeve
MW627	E13	On-site	513028.72	5781816.27	13/11/23	5.030	4.540	2.856	1.684	3.960	Brown, high turbidity	16	0.52	5767	3748.55	6.68	121.3	Shallow	Hydrasleeve
MW628	E13	On-site	513149.47	5781738.44	16/11/23	4.236	3.500	1.919	1.581	NM	Bailed dry for sample and parameters, cloudy light brown, low turbidity	15.4	2.23	6868	4464.2	7.05	-86.7	Shallow	HandBailing
MW629	E13	On-site	513088.04	5781689.74	13/11/23	6.000	3.280	1.664	1.616	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW636	E13	On-site	511566.35	5781821.48	13/11/23	6.450	5.720	3.668	2.052	5.341	Clear, low turbidity	16.3	3.61	2796	1817.4	7.51	93.1	Shallow	Hydrasleeve
MW701	E13	On-site	513061.37	5781149.45	14/11/23	10.130	5.480	4.303	1.177	9.010	HS lost down well, replaced with bailer, slightly cloudy, low turbidity, no odour	16.3	1.07	3879	2521.35	6.2	-30.6	Intermediate	Bailer
MW702	E13	On-site	513167.76	5781688.35	14/11/23	5.201	4.180	2.536	1.644	4.050	Brown, medium turbidity	16.5	1.02	5762	3745.3	7.29	90.1	Shallow	Hydrasleeve
MW703	E13	On-site	512733.70	5781887.70	13/11/23	6.254	6.270	4.506	1.764	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW704	E13	On-site	512833.23	5781892.88	13/11/23	10.640	5.930	4.101	1.829	8.800	Previous hydrasleeve lost, no odour, minimal sediment in sleeve, clear, no turbidity	15.4	0.77	3542	2302.3	7.45	-74.1	Intermediate	Hydrasleeve
MW705	E13	On-site	512830.16	5781894.72	13/11/23	15.317	5.680	4.033	1.647	14.503	Clear, no turbidity, minimal sediment in bottom of sleeve	15.7	0.81	3344	2173.6	6.66	-27.1	Haunted Hills	Hydrasleeve
MW707	E13	On-site	512837.57	5781171.30	14/11/23	5.830	5.590	4.359	1.231	5.000	Well bailed dry, no odour, brown, high turbidity	16	3.23	3060	1989	7.27	-68.1	Shallow	HandBailing

Location	Event No.	Property	Easting	Northing	Monitoring Date	Bore Depth (m)[1]	Top of casing (mAHD)	SWL (bTOC)	SWL (mAHD)	Top of Hydrasleeve (bTOC)[2]	Other Observations on Bore/Site[2]	Temp (C°)	DO (mg/L)	EC (µS/Cm)	TDS (mg/L)	pH	Eh (mV)	Aquifer	Sampling Method
MW708	E13	On-site	513109.66	5781434.23	14/11/23	5.875	6.150	4.830	1.320	5.000	Well bailed dry, brown, medium turbidity	15.5	6.91	817	531.05	7	-33.5	Shallow	HandBailing
MW709	E13	On-site	512808.42	5781757.31	14/11/23	4.970	4.633	2.896	1.737	3.750	Cloudy, low turbidity, no odour	15.1	2.11	5710	3711.5	7.41	-62.6	Shallow	Hydrasleeve
MW711	E13	On-site	513267.69	5781773.97	13/11/23	5.600	5.380	2.887	2.493	4.460	Slightly cloudy, no turbidity, sediment in bottom of sleeve, no odour	17	1.66	4258	2767.7	7.43	-207.7	Shallow	Hydrasleeve
MW712	E13	On-site	512409.41	5781234.49	14/11/23	5.660	5.080	3.491	1.589	4.730	Bailed dry and sampled, clear, no turbidity	17.9	5.7	15599	10139.35	7.33	113.2	Shallow	HandBailing
MW713	E13	On-site	512127.69	5781809.98	14/11/23	5.800	4.580	2.827	1.753	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW714	E13	On-site	512000.53	5781280.42	14/11/23	7.740	5.080	-	-	5.850	Clear, no turbidity, malfunction of gauging data	16.4	1.26	2597	1688.05	6.84	-20.3	Shallow	Hydrasleeve
MW715	E13	On-site	514206.25	5781628.05	13/11/23	6.710	3.320	1.918	1.402	5.880	Clear, no turbidity, no odour	16.3	0.99	17575	11423.75	6.5	-146	Shallow	Hydrasleeve
MW716	E13	On-site	514291.93	5782261.45	13/11/23	4.670	3.350	1.768	1.582	3.300	Cloudy, low turbidity, no odour, sediment in bottom of sleeve	17.2	0.89	6406	4163.9	7.33	-232.3	Shallow	Hydrasleeve
MW718	E13	On-site	513923.17	5782782.41	14/11/23	4.608	3.740	1.860	1.880	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW719	E13	On-site	512459.23	5783093.51	14/11/23	4.465	5.220	2.149	3.071	3.310	Cloudy and brown, low turbidity, no odour, suspended sediment in sleeve	15	0.85	3508	2280.2	7.02	174.1	Shallow	Hydrasleeve
MW720	E13	On-site	512232.85	5782945.97	16/11/23	4.950	5.390	1.904	3.406	3.890	Cloudy, medium turbidity	16	2.04	3896	2532.4	6.83	94.4	Shallow	Hydrasleeve
MW722	E13	On-site	511287.41	5782657.25	13/11/23	6.000	7.190	2.880	4.310	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW724	E13	On-site	510914.18	5782984.85	13/11/23	4.850	6.400	1.203	5.197	3.850	Clear, low turbidity	15.6	1.2	13565	8817.25	6.96	136.8	Shallow	Hydrasleeve
MW725	E13	On-site	511106.89	5782987.74	13/11/23	5.860	7.020	1.496	5.524	4.800	Clear, medium turbidity	17.5	0.91	3407	2214.55	6.99	100.3	Shallow	Hydrasleeve
MW726	E13	On-site	511157.71	5783232.41	13/11/23	4.410	6.760	1.145	5.615	3.420	Gatic filled with water, cloudy to brown, low turbidity, sediment in bottom of sleeve	18.3	1.58	2412	1567.8	7.24	-41.7	Shallow	Hydrasleeve
MW728	E13	On-site	511164.08	5782955.08	13/11/23	5.900	7.060	1.493	5.567	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve
MW729	E13	On-site	511823.51	5782660.90	16/11/23	13.500	5.910	3.081	2.829	12.480	Pale yellow, medium turbidity, high volume of suspended solids at base of sleeve	17	1.32	1284	834.6	6.33	107.7	Haunted Hills	Hydrasleeve
MW730	E13	On-site	513354.14	5783548.32	16/11/23	4.870	3.910	1.112	2.798	3.820	Clear, low turbidity, minimal sediment at base of sleeve	14.6	0.99	1800	1170	7.37	-108	Shallow	Hydrasleeve
MW733	E13	On-site	510924.92	5783445.01	23/11/32	3.530	6.360	0.779	5.581	2.390	Cloudy, low turbidity, no odour	19.6	1.95	5149	3346.85	6.94	100.1	Shallow	Hydrasleeve
MW734	E13	On-site	510888.80	5783295.18	13/11/23	4.680	7.290	1.452	5.838	2.740	Cloudy and brown, medium turbidity, no odour, sediment in bottom of sleeve	14.7	1.9	710	461.5	7.13	-47	Shallow	Hydrasleeve
MW735	E13	On-site	513057.98	5781149.90	14/11/23	5.570	5.430	4.247	1.183	4.500	Clear, no turbidity, minimal sediment in bottom of sleeve, no dour	16.5	3.16	4368	2839.2	6.68	-26.4	Shallow	Hydrasleeve
MW737	E13	On-site	511152.05	5783442.37	13/11/23	16.040	6.590	1.324	5.266	15.900	Clear, low turbidity, slight hydrogen sulfide odour	16.3	1.8	1220	793	7.35	-26.4	Haunted Hills	Hydrasleeve
MW738	E13	On-site	511824.18	5782662.41	16/11/23	4.770	5.860	1.950	3.910	3.650	Slightly cloudy, low turbidity, no odour	16.4	1.34	3578	2325.7	7.15	-57.1	Shallow	Hydrasleeve
MW739	E13	On-site	513167.49	5781682.74	14/11/23	8.417	4.490	2.602	1.888	7.574	Clear, no turbidity	16.2	1.86	6323	4109.95	7.26	81.3	Intermediate	Hydrasleeve
MW740	E13	On-site	513105.77	5781435.26	14/11/23	10.270	6.410	5.100	1.310	9.500	Clear, slightly cloudy at bottom of sleeve, no odour	15.2	1.9	2704	1757.6	6.55	-9.3	Intermediate	Hydrasleeve
MW741	E13	On-site	512409.88	5781237.13	14/11/23	11.040	5.200	4.544	0.656	8.661	Clear, no turbidity	18.1	1.82	11648	7571.2	6.57	106.4	Intermediate	Hydrasleeve
POT027	E13	Off-site	514450.48	5782308.48	23/11/23	-	-	-	-	-	Clear, low turbidity	21.2	2.46	631	121.3	6.12	30.3	Point of Use	Other
POT034	E13	Off-site	-	-	16/11/23	-	-	-	-	-	Sampled from tap, clear, no turbidity	15.9	0.59	1623	1054.95	6.61	-84.3	Point of Use	Other
POT042	E13	Off-site	-	-	21/11/23	17.860	NM	0.703	-	17.000	Grey, high turbidity, high volume of black suspended solids, strong sulfuric odour	16.4	0.43	1541	1001.65	6.72	-147.6	Point of Use	Hydrasleeve
POT050	E13	Off-site	-	-	16/11/23	-	NM	-	-	NM	HS well not located, sample taken from irrigation pump from deeper aquifer, clear, no turbidity	17.9	3.62	696	452.4	6.34	-29.8	Point of Use	Other
POT051	E13	Off-site	-	-	20/11/23	14.600	NM	0.615	-	14.000	Yellow, low turbidity, strong organic odour, minimal sediment at bottom of sleeve	15.8	0.83	317.3	206.245	6.44	-283.2	Point of Use	Hydrasleeve

[1] Value is considered to be anomalous

[2] Flow was measured qualitatively except for select locations where a flow rate was measured

Total Dissolved Solids (TDS) is calculated from Electrical Conductivity (EC) using a conversion factor of 0.65

Table B1b: Surface Water Field Data Records

Location ID	Event No.	Property	Easting	Northing	Monitoring Date	Survey Point (mAHD)	Depth to Water from Survey Point (m)	SWL (mAHD)	Sample Depth (m)	Flow Rate	Water Colour	Turbidity	Other Obvservations	Temp (°C)	DO (mg/L)	EC (µS/Cm)	TDS (mg/L)	pH	Eh (mV)
SW001	E13	Off-Site	512248.33	5780710.45	21/11/23	-	-		0.3	Low	Cloudy	Low	-	19.5	5.52	454.4	295.36	7.89	-199
SW002	E13	Off-Site	512992.27	5780415.61	21/11/23	-	-	-	0.1	Stagnant	Brown	Medium	Overgrowth of reeds in area	20.4	5.41	518	336.70	7.15	-170.2
SW004	E13	Off-Site	512981.90	5780346.38	21/11/23	-	-	-	0.1	Stagnant	Cloudy	Medium	Overgrowth of reeds in area, biofilm along water edge	18.8	4.46	672	436.80	6.98	30.3
SW011	E13	Off-Site	513700.56	5779345.11	22/11/23	-	-	-	0.2	Stagnant	Cloudy	Low	Overgrowth of reeds in area	25.1	5.52	4028	2618.20	7.86	115.7
SW012	E13	Off-Site	513239.66	5778657.56	22/11/23	-	-	-	0.3	Stagnant	Clear	No	-	20.5	5.09	232.1	150.87	7.58	100.8
SW014	E13	Off-Site	513162.07	5778770.91	22/11/23	-	-	-	0.2	Stagnant	Clear	Low	Sampled within surface water drain, biofilm on surface	23	5.14	474.3	308.30	7.53	113.7
SW015	E13	Off-Site	511590.29	5779339.83	22/11/23	-	-	-	0.2	Low	Cloudy	Medium	-	23.5	5.11	472	306.80	7.59	128.2
SW016	E13	Off-Site	512837.64	5779485.31	22/11/23	-	-	-	0.2	Stagnant	Clear	Low	-	23.9	5.46	454.1	295.17	7.47	108.5
SW019	E13	Off-Site	518651.55	5780487.87	21/11/23	-	-	-	0.3	Stagnant	Brown	Medium	-	20.4	3.95	390.7	253.96	6.78	81.5
SW030	E13	Off-Site	514516.63	5780010.56	21/11/23	Unable to sample due to inaccessibility issues													
SW031	E13	Off-Site	510890.68	5779913.58	23/11/23	-	-	-	0.1	Low	Cloudy	Medium	-	20.3	5.28	446.8	290.42	6.04	133.4
SW032	E13	Off-Site	509198.44	5779622.92	23/11/23	-	-	-	0.2	Stagnant	Cloudy	Low	-	21.2	4.8	679	441.35	6.05	129.4
SW033	E13	Off-Site	513069.86	5780804.13	21/11/23	-	-	-	0.1	Stagnant	Cloudy	Medium	Overgrowth of reeds in area, slight organic odour, microorganisms present	15.8	1.78	3022	1964.30	7.16	-286.1
SW034	E13	Off-Site	511751.29	5780440.49	21/11/23	-	-	-	0.15	Stagnant	Cloudy	Low	-	24.3	6	471.8	306.67	7.83	-209.5
SW035	E13	Off-Site	512256.67	5780692.28	21/11/23	-	-	-	0.3	Stagnant	Brown	Medium	-	19.6	5.75	363.5	236.28	7.02	78.2
SW041	E13	Off-Site	512590.57	5780654.11	21/11/23	-	-	-	0.15	Stagnant	Brown	Medium	Algae and slight sheen present	20.2	4.83	1367	888.55	5.95	18.4
SW049	E13	Off-Site	511002.45	5783872.55	23/11/23	-	-	-	0.1	Low	Cloudy	Medium	Overgrowth of vegetation in area, slight anaerobic odour, suspended black particles	20.8	0.79	62.5	40.63	6.99	-61.1
SW052	E13	Off-Site	513528.35	5780380.31	21/11/23	-	-	-	0.15	Stagnant	Cloudy	Low	Floating vegetation matter, biofilm near waters edge	19.6	6.36	464.5	301.93	7.05	-186.7
SW077	E13	Off-Site	506789.51	5780804.99	22/11/23	-	-	-	0.3	Low	Clear	Low	-	25.7	5.06	731	475.15	7.99	132.1
SW080	E13	Off-Site	509107.89	5777933.01	22/11/23	-	-	-	0.3	Low	Cloudy	Low	Foaming and slight sheen present	19	5.22	210.8	137.02	8.04	97
SW082	E13	Off-Site	509637.63	5777965.97	22/11/23	-	-	-	0.15	Low	Cloudy	Low	-	18.8	5.58	458.8	298.22	7.68	116.5
SW088	E13	Off-Site	516776.05	5780921.84	21/11/23	-	-	-	0.1	Stagnant	Cloudy	Low	-	20.7	6.19	605	393.25	7.72	-267.4
SW089	E13	Off-Site	516503.46	5779840.98	21/11/23	-	-	-	0.15	Stagnant	Clear	Low	Microorganisms present	19.9	4.7	490.5	318.83	6.61	-215.3
SW092	E13	Off-Site	518702.45	5780052.64	21/11/23	-	-	-	0.15	Stagnant	Clear	No	Overgrowth of reeds in area	20.7	5.24	501	325.65	7	-257.4
SW093	E13	Off-Site	518754.32	5779840.39	21/11/23	-	-	-	0.2	Stagnant	Clear	Low	-	19.7	5.11	305.8	198.77	7.08	-272.6
SW201	E13	On-Site	510966.97	5783793.22	22/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW203	E13	On-Site	511068.89	5783296.33	16/11/23	-	-	-	0.05	Stagnant	Brown	Low	Algae present, minimal water at location	16.3	11.4	402.1	261.37	8.81	47.1
SW206	E13	On-Site	511192.64	5783184.22	16/11/23	-	-	-	-	-	-	-	Access blocked by placement of large skip bin	-	-	-	-	-	-
SW208	E13	On-Site	511723.11	5783002.23	16/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW209	E13	On-Site	512448.20	5783072.04	17/11/23	-	-	-	0.1	Stagnant	Grey, cloudy	Low	Leaf litter and grass cuttings on water surface, slight PFAS sheen present, slight organic odour	14.9	0	741	481.65	7.06	-159.9
SW216	E13	On-Site	512026.00	5782645.43	16/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW217	E13	On-Site	511877.09	5782558.63	17/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW222	E13	On-Site	511684.30	5782543.22	16/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW223	E13	On-Site	511655.58	5782363.80	16/11/23	-	-	-	0.1	Stagnant	Clear	Medium	Microorganisms and algae present, organic decomposition odour	21.1	12.55	193.6	125.84	9.74	32.8
SW224	E13	On-Site	511024.96	5782271.78	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW226	E13	On-Site	511860.00	5782088.75	17/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW227	E13	On-Site	511553.78	5782168.42	16/11/23	-	-	-	0.2	Stagnant	Slightly cloudy	Low	-	19.4	4.66	452	293.80	7.74	-60.1
SW228	E13	On-Site	511836.86	5781940.81	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-

Location ID	Event No.	Property	Easting	Northing	Monitoring Date	Survey Point (mAHD)	Depth to Water from Survey Point (m)	SWL (mAHD)	Sample Depth (m)	Flow Rate	Water Colour	Turbidity	Other Obvservations	Temp (°C)	DO (mg/L)	EC (µS/Cm)	TDS (mg/L)	pH	Eh (mV)
SW230	E13	On-Site	511900.23	5781561.62	15/11/23	-	-	-	0.15	Stagnant	Clear	Low	Overgrown reeds, microorganisms present, slight organic odour	21.7	2.98	172.9	112.39	6.47	-17.2
SW231	E13	On-Site	513984.49	5783450.58	20/11/23	-	-	-	0.1	Stagnant	Cloudy, suspended particles	Low	Foaming, microorganisms, algae and sheen present on waters surface	18.9	2.79	12345	8024.25	7.46	-178
SW232	E13	On-Site	513805.30	5783125.57	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW233	E13	On-Site	513481.73	5783054.00	16/11/23	-	-	-	0.1	Stagnant	Brown	Medium	Slight sheen present	14.6	1.68	4967	3228.55	6.95	-58.7
SW235	E13	On-Site	514359.93	5782800.29	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW237	E13	On-Site	513744.14	5782898.37	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW238	E13	On-Site	513338.67	5782709.14	20/11/23	-	-	-	0.1	Stagnant	Brown	High	-	18.4	1.14	4860	3159.00	6.82	24.3
SW239	E13	On-Site	512981.03	5782718.99	17/11/23	-	-	-	0.15	Stagnant	Brown	High	-	18.7	0.27	3105	2018.25	7.14	-99.3
SW242	E13	On-Site	512428.43	5781951.87	16/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW246	E13	On-Site	512004.75	5781525.60	15/11/23	-	-	-	0.1	Stagnant	Brown	Medium	Significant amount of minute root matter and organic material throughout water, algae present	27.2	17.34	377.4	245.31	9.69	40.6
SW251	E13	On-Site	513092.25	5781098.45	15/11/23	-	-	-	0.1	Stagnant	Clear	Low	Overgrowth of reeds in area, biofilm on waters surface, slight sheen present	20	2.23	2501	1625.65	7.27	-52
SW252	E13	On-Site	512619.53	5781536.02	15/11/32	-	-	-	0.1	Stagnant	Yellow	High	Slight manure/organic odour	24.3	3.84	342.5	222.63	6.65	-21.4
SW256	E13	On-Site	513308.87	5782511.39	23/11/23	-	-	-	0.2	Stagnant	Brown	High	Algae present	23.2	0.3	4454	2895.10	7.21	-73.2
SW258	E13	On-Site	513180.47	5781676.05	16/11/23	-	-	-	0.1	Stagnant	Brown	High	Slight organic odour	16.7	1.4	2961	1924.65	7.2	-63.6
SW260	E13	On-Site	513117.34	5781262.60	16/11/23	-	-	-	0.15	Stagnant	Cloudy	Low	Potential biofilm on waters surface	15.2	0.7	2640	1716.00	7.16	-93.4
SW277	E13	Off-Site	515317.83	5779357.56	21/11/23	-	-	-	0.2	Stagnant	Cloudy	Low	-	22.1	6.65	455.6	296.14	7.15	-238
SW351	E13	On-Site	513053.57	5781110.03	15/11/23	-	-	-	0.1	Stagnant	Slightly cloudy	Low	Foaming and algae present	24.7	8.78	166.5	108.23	8.68	-51.2
SW353	E13	On-Site	511723.00	5782690.00	16/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-
SW366	E13	On-Site	511084.73	5782202.18	16/11/23	-	-	-	-	-	-	-	Location dry	-	-	-	-	-	-

[1] Value is considered to be anomalous
[2] Flow was measured qualitatively except for select locations where a flow rate was measured
[3] NM - not measured
Total Dissolved Solids (TDS) is calculated from Electrical Conductivity (EC) using a conversion factor of 0.65

Location ID	Event No.	Property	Easting	Northing	Monitoring Date	Other Observations
SD001	E13	Off-Site	-	-	21/11/2023	Clayey sand with fine gravels, grey-red, low plasticity, no odour, moist, no staining, no organics
SD011	E13	Off-Site	513700.56	5779345.11	22/11/2023	Silty sandy clay, dark brown with minimal orange mottling, low-moderate plasticity, medium grained, no organic matter, no odour, no staining, moist
SD014	E13	Off-Site	513162.07	5778770.91	22/11/2023	Clayey sand, dark brown, fine to medium grained, low to moderate plasticity, slight sulfuric odour, no staining
SD015	E13	Off-Site	511590.29	5779339.83	22/11/2023	Clayey sand, dark brown, loose, soft, medium to course grained, moist to wet, organic plant roots present, no odour, no staining, low plasticity
SD016	E13	Off-Site	512837.64	5779485.31	22/11/2023	Silty clay, strong anaerobic odour, decomposition, brown, dry to moist, moderate to low plasticity, minor plant roots, no staining
SD019	E13	Off-Site	518651.55	5780487.87	21/11/2023	Silty clay, dark brown, medium plasticity, moist, no odour, no staining, no organic material
SD030	E13	Off-Site	-	-	21/11/2023	Could not access to sample
SD031	E13	Off-Site	510890.68	5779913.58	23/11/2023	Silty clay, brown, high plasticity, slight orange mottlling, no odour, no organic material, moist
SD032	E13	Off-Site	-	-	23/11/2023	Silty clay, brown, high plasticity, moist, minimal black staining possibly due to organic decomposition, minimal organic material present, no odour
SD033	E13	Off-Site	-	-	21/11/2023	Silty clay, brown, mixed with root matter, moist, low plasticity, slightly firm, medium grained, poorly graded, slight organic odour
SD034	E13	Off-Site	-	-	21/11/2023	Silty clay, firm slightly moist, dark brown, low plasticity, no odour, no staining, very minor root matter
SD035	E13	Off-Site	-	-	21/11/2023	Silty clay, dark brown, trace medium grain sand, medium plasticity, moist, no odour, no staining, no organic matter
SD041	E13	Off-Site	-	-	21/11/2023	Silty clay, dark brown, medium to high plasticity, no odour, no staining, minor plant roots, minor orange mottling
SD049	E13	Off-Site	511002.45	5783872.55	23/11/2023	Silty clay, light brown, high to very high plasticity, moist, organic material, no standing, no odour
SD052	E13	Off-Site	513528.35	5780380.31	21/11/2023	Silty clay, firm, brown mottled with black and light brown, mixed with root matter, medium-high plasticity, slight organic odour, fine grained, poorly graded, moist
SD082	E13	Off-Site	509637.63	5777965.97	22/11/2023	Silty clay, brown with minor orange mottling, medium plasticity, no odour, no staining, no organic matieral, soft
SD088	E13	Off-Site	516776.05	5780921.84	21/11/2023	Silty clay, light grey-brown, medium-high plasticity with minor orange mottling, no odour, no vegetation, no staining, trace fine grained sand
SD089	E13	Off-Site	516503.46	5779840.98	21/11/2023	Silty clay, trace sands, medium grained, low-medium plasticity, no odour, no staining, no organic material, dark brown, moist, poorly graded
SD201	E13	On-Site	510966.97	5783793.22	22/11/2023	Clayey sand, brown, dry, moderate plasticity, no odour, no organic material, no staining, medium grained
SD206	E13	On-Site	511192.64	5783184.22	22/11/2023	Access blocked by placement of large skip bin
SD209	E13	On-Site	512448.20	5783072.04	17/11/2023	Gravelly sand, dark grey brown, mixed with leaf litter and vegetation, loose, well graded, medium grained, very slight organic odour
SD216	E13	On-Site	512026.00	5782645.43	17/11/2023	Insufficient material to sample
SD217	E13	On-Site	511877.09	5782558.63	17/11/2023	Sandy silt, dark brown, root matter present, loose, dry, medium grained, moderately graded, no odour, low plasticity
SD226	E13	On-Site	511860.00	5782088.75	17/11/2023	Silty clay, brown with minor orange mottling, no odour, moderate to high plasticity, no vegetation, dry, no staining
SD227	E13	On-Site	511553.78	5782168.42	16/11/2023	Silty clay, firm, light brown, minimal root matter, fine grained, poorly graded, high plasticity
SD230	E13	On-Site	511900.23	5781561.62	15/11/2023	Silty clay, dark grey brown, mixed with reeds, slight organic odour, slightly firm, fine grained
SD231	E13	On-Site	513984.49	5783450.58	20/11/2023	Sandy silt with gravel inclusions, brown, moist, medium grained, well graded, low plasticity, root matter present
SD239	E13	On-Site	512981.03	5782718.99	17/11/2023	Clayey sand, moist to wet, brown, medium to coarse grained, no odour, no staining, some root matter present
SD246	E13	On-Site	512004.75	5781525.60	15/11/2023	Silty clay, soft, pale grey brown, soft to firm, fine grained, organic matter and plant roots present
SD258	E13	On-Site	513180.47	5781676.05	16/11/2023	Silty clay, dark brown, moist, mixed with roots, fine grained, poorly graded, slightly firm, very slight organic odour, high-medium plasticity
SD259	E13	On-Site	513148.83	5781465.67	16/11/2023	Clayey sand, mixed with reeds and roots, slightly firm, slightly moist, fine grained, poorly graded, low plasticity, very faint organic odour
SD260	E13	On-Site	512026.00	5782645.43	16/11/2023	Silty clay, mixed with root matter, dark brown mottled with grey, firm, moist, finely grained, slight organic odour
SD277	E13	Off-Site	515423.68	5779325.14	21/11/2023	Sandy silty clay, brown with minor orange mottling, moderate plasticity, moist, fine grained, no organic material, no odour, no staining

Some monitoring location coordinates are not shown due to privacy reasons

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW008	03 May 2016	OMW008	Normal	EM1604884	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	28 Nov 2019	0937_MW008_191128	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW008_20200319	Normal	EM2004708	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW008_20200618	Normal	EM2010387	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW008_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_MW008_210204	Normal	EM2101560	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 May 2021	0937_MW008_20210504	Normal	EM2108091	0.05	<0.01	0.09	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_MW008_210806	Normal	EM2115569	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	0937_MW008_211118	Normal	EM2123079	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW008_220222	Normal	EM2203192	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW008_220528	Normal	EM2210253	0.06	<0.01	0.09	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW008_220829	Normal	EM2216985	0.06	<0.01	0.09	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW008_221129	Normal	EM2223925	0.07	<0.01	0.11	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW008_231120	Normal	EM2320919	0.19	<0.01	0.25	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
MW009	03 May 2016	OMW009	Normal	EM1604884	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	28 Nov 2019	0937_MW009_191128	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Mar 2020	0937_MW009_20200319	Normal	EM2004708	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW009_200616	Normal	EM2010387	0.04	<0.01	0.09	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW009_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_MW009_210204	Normal	EM2101560	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Apr 2021	0937_MW009_20210429	Normal	EM2107805	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_MW009_210805	Normal	EM2115569	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	0937_MW009_211118	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW009_220222	Normal	EM2203192	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW009_220528	Normal	EM2210253	0.03	<0.01	0.04	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW009_220829	Normal	EM2216985	0.06	<0.01	0.08	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW009_221129	Normal	EM2223925	0.12	<0.01	0.15	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW009_231120	Normal	EM2320919	0.59	0.01	0.79	0.06	0.03	0.20	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
MW010	04 May 2016	OMW010	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	03 Dec 2019	0937_OMW10_191203	Normal	EM1920780	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW010_20200317	Normal	EM2004708	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW010_20200618	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW010_201112	Normal	EM2020052	0.04	<0.01	0.08	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW010_210201	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	0937_MW010_20210421	Normal	EM2107087	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_MW010_210806	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	0937_MW010_211118	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW010_220222	Normal	EM2203192	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_MW010_220531	Normal	EM2210253	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW010_220829	Normal	EM2216985	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Dec 2022	0937_MW010_221201	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Nov 2023	0937_MW010_231123	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW014	22 Nov 2019	0937_MW014_191122	Normal	EM1920034	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Jun 2020	0937_MW014_200623	Normal	EM2010689	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW014_210203	Normal	EM2101569	0.09	<0.01	0.13	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW014_210804	Normal	EM2115486	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW014_220222	Normal	EM2203195	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW014_220829	Normal	EM2216998	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW014_231120	Normal	EM2320909	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW015	09 Jun 2017	OMW015	Normal	EM1707603	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	0937_OMW15_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW015_200618	Normal	EM2010387	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW015_210203	Normal	EM2101560	0.02	<0.01	0.05	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW015_210804	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW015_211117	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW015_220222	Normal	EM2203192	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_MW015_220529	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	0937_MW015_220830	Normal	EM2216985	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW015_221129	Normal	EM2223925	0.01	<0.01	0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW015_231120	Normal	EM2320919	0.08	<0.01	0.11	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW016	09 Jun 2017	OMW016	Normal	EM1707603	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	0937_OMW16_191203	Normal	EM1920780	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW016_200618	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW016_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW016_210804	Normal	EM2115569	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW016_211117	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW016_220222	Normal	EM2203192	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_MW016_220529	Normal	EM2210253	0.06	<0.01	0.09	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	0937_MW016_220830	Normal	EM2216985	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW016_221129	Normal	EM2223925	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW016_231120	Normal	EM2320919	0.06	<0.01	0.10	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW201	12 May 2016	MW201-S	Normal	EM1605441	554	270	8,874	1,240	79.9	8,320	233	<0.02	642	368	2,320	216	0.07	<0.02	<0.05
	28 Nov 2019	0937_MW201S_191128	Normal	EM1920529	456	222	4,860	932	1,150	4,400	293	<0.50	5.4	278	1,310	168	<0.50	<0.50	<0.50
	18 Mar 2020	0937_MW201_20200318	Normal	EM2004711	676	404	7,540	1,410	1,540	6,860	261	<0.50	15.5	335	2,190	314	<0.50	<0.50	<0.50
	17 Jun 2020	0937_MW201_20200617	Normal	EM2010514	659	270	5,440	953	1,060	4,780	177	<0.50	202	263	1,700	194	<0.50	<0.50	<0.50
	11 Nov 2020	0937_MW201_201111	Normal	EM2020050	414	207	3,730	795	810	3,320	136	0.06	0.8	204	1,120	157	0.10	<0.04	<0.04
	03 Feb 2021	0937_MW201_210203	Normal	EM2101575	413	205	3,930	749	741	3,520	134	<0.04	10.6	81.4	1,020	164	0.06	<0.04	<0.04
	27 Apr 2021	0937_ MW201_20210427	Normal	EM2107858	238	178	3,810	756	699	3,570	116	<0.04	218	219	1,130	150	0.12	<0.04	<0.04
	03 Aug 2021	0937_MW201_210803	Normal	EM2115476	483	244	5,420	929	697	4,940	175	<0.04	10.8	276	1,460	181	0.08	<0.04	<0.04
	16 Nov 2021	0937_MW201_211116	Normal	EM2123080	624	254	4,970	908	845	4,350	178	0.07	4.0	294	1,220	171	0.09	<0.04	<0.04
	16 Feb 2022	0937_MW201_220216	Normal	EM2202703	839	464	9,780	2,250	2,050	8,940	336	0.3	420	742	3,280	376	0.36	<0.05	<0.05
	19 May 2022	0937_MW201_220525	Normal	EM2210316	983	514	10,200	2,430	2,450	9,250	814	<0.50	529	681	3,240	388	<0.50	<0.50	<0.50
	24 Aug 2022	0937_MW201_220824	Normal	EM2216476	711	355	7,230	1,530	1,310	6,520	274	<0.36	21.3	455	2,090	298	<0.36	<0.36	<0.36
	23 Nov 2022	0937_MW201_221123	Normal	EM2223510	560	313	5,250	1,250	1,150	4,690	273	<0.35	22.9	352	1,740	244	<0.35	<0.35	<0.35
	15 Nov 2023	0937_MW201_231115	Normal	EM2320952	735	423	7,540	1,650	1,770	6,810	486	<0.38	68.4	526	2,380	313	0.52	<0.38	<0.38

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW202	01 Jun 2016	MW202S	Normal	EM1606406	497	22.8	937	77.3	69.6	440	37.3	<0.02	0.9	17.1	50.8	8.56	<0.02	<0.02	<0.02
		QCA114	Field_D	EM1606406	498	20.1	935	75.3	69.7	437	36.2	<0.02	1	16.6	48.9	8.59	<0.02	<0.02	<0.02
		QCB115	Interlab_D	503025	490	21	880	57		390		<0.01	7.9	13	55	10	0.03	<0.01	0.01
	28 Nov 2019	0937_MW202S_191128	Normal	EM1920529	320	15.1	585	46.2	40.0	265	25.5	<0.05	5.6	10.6	49.8	7.80	<0.05	<0.05	<0.05
	18 Mar 2020	0937_MW202_20200318	Normal	EM2004711	384	19.0	745	57.6	59.6	361	45.5	<0.05	2.1	12.9	67.6	9.86	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW202_20200617	Normal	EM2010514	307	13.8	539	33.4	39.5	232	23.4	<0.05	7.2	8.06	44.6	6.35	<0.05	<0.05	<0.05
	11 Nov 2020	0937_MW202_201111	Normal	EM2020050	265	11.0	473	31.3	33.6	208	25.4	<0.04	0.8	7.08	35.7	6.02	<0.04	<0.04	<0.04
	03 Feb 2021	0937_MW202_210203	Normal	EM2101575	342	12.7	561	32.0	32.0	219	24.0	<0.04	2.4	7.90	37.6	6.45	<0.04	<0.04	<0.04
	28 Apr 2021	0937_ MW202 _20210428	Normal	EM2107858	305	11.3	520	29.9	33.0	215	31.0	<0.04	6.9	7.06	39.4	5.96	<0.04	<0.04	<0.04
		0937_QC108_20210428	Field_D	EM2107858	279	11.6	501	29.4	34.7	222	32.4	<0.04	6.5	7.11	38.5	6.03	<0.04	<0.04	<0.04
		QC208_20210428	Interlab_D	792537	420	12	720	43	53	300	25	<0.1	6.5	9.1	43	6.9	0.03	0.01	<0.01
	03 Aug 2021	0937_MW202_210803	Normal	EM2115476	531	15.8	801	37.8	28.9	270	32.0	<0.04	2.7	9.33	47.1	7.40	<0.04	<0.04	<0.04
		0937_QC120_210803	Field_D	EM2115476	441	14.4	660	32.6	34.2	219	25.2	<0.02	4.4	8.73	38.3	7.05	0.04	<0.02	<0.02
		0937_QC220_210803	Interlab_D	815502	590	15	900	43	51	310	35	<0.01	6.7	10	47	6.8	0.03	<0.01	<0.01
	16 Nov 2021	0937_MW202_211116	Normal	EM2123080	477	20.8	814	39.9	40.3	337	28.3	<0.04	3.1	10.6	48.4	8.88	0.04	<0.04	<0.04
		0937_QC114_211116	Field_D	EM2123080	429	20.4	787	42.1	60.6	358	41.4	<0.04	3.2	12.2	58.8	8.85	0.04	<0.04	<0.04
		0937_QC214_211116	Interlab_D	842318	540	19	890	47	61	350	42	<1	7.3	11	57	8.3	<1	<1	<1
	16 Feb 2022	0937_MW202_220216	Normal	EM2202703	736	46.2	1,580	104	135	842	71.2	<0.05	13.4	29	158	22.8	0.14	<0.05	<0.05
	26 May 2022	0937_MW202_220526	Normal	EM2210316	559	39.4	1,190	68.7	78.4	631	55.7	<0.50	14.2	20.2	104	18.4	<0.50	<0.50	<0.50
	24 Aug 2022	0937_MW202_220824	Normal	EM2216476	447	31.6	989	55.6	66.1	542	45.4	<0.03	4.5	15.2	80.0	14.5	0.07	<0.03	<0.03
	23 Nov 2022	0937_MW202_221123	Normal	EM2223510	506	43.3	1,140	61.0	82.1	635	61.4	<0.04	4.2	19.6	96.0	18.9	0.13	<0.04	<0.04
	15 Nov 2023	0937_MW202_231115	Normal	EM2320952	451	31.1	874	53.0	62.2	423	45.6	<0.04	5.1	15.4	74.7	13.9	0.15	<0.04	<0.04
MW302	28 Jun 2016	P011-OEW001	Normal	EM1607522	<0.01	<0.01	<0.01												
		QCA128	Field_D	EM1607525	<0.01	<0.01	<0.01												
		QCB129	Interlab_D	506186	<0.02	<0.02	<0.04	<0.02		<0.02		<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	08 Jun 2017	P011_OWE001	Normal	EM1707596	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Dec 2019	0937_MW302_191204	Normal	EM1920785	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW302_200618	Normal	EM2010384	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW302_210204	Normal	EM2101564	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_MW302_210705	Normal	EM2115484	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW302_220222	Normal	EM2203199	0.03	<0.01	0.09	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	0937_MW302_220830	Normal	EM2216992	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2023	0937_MW302_231117	Normal	EM2320914	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW304	17 Oct 2015	35C	Normal		0.12	<0.02	0.12												
	03 May 2016	OMW001	Normal	EM1604884	0.05	<0.01	0.23	0.04	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
		QCA100	Field_D	EM1604884	0.04	<0.01	0.22	0.04	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
		QCB101_160503	Interlab_D	498992	<0.01	<0.01	0.03	0.03		0.03		<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	02 Dec 2019	0937_OMW001_191202	Normal	EM1920780	0.74	0.03	1.13	0.08	0.05	0.39	0.03	<0.02	<0.1	0.02	0.09	<0.02	<0.02	<0.02	<0.02
	16 Mar 2020	0937_MW304_20200316	Normal	EM2004708	1.03	0.04	1.50	0.07	0.09	0.47	0.03	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW304_20200618	Normal	EM2010387	1.22	0.05	1.72	0.08	0.09	0.50	0.04	<0.02	<0.1	0.04	0.16	0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW304_201112	Normal	EM2020052	0.33	<0.01	0.51	0.03	0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW304_210203	Normal	EM2101560	0.29	<0.01	0.47	0.04	0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_MW304_20210428	Normal	EM2107805	0.42	0.01	0.64	0.23	0.02	0.22	<0.02	<0.02	<0.1	0.04	0.07	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW304_210804	Normal	EM2115569	0.22	<0.01	0.38	0.03	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW304_211117	Normal	EM2123079	0.14	<0.01	0.25	0.03	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW304_220222	Normal	EM2203192	0.15	<0.01	0.25	0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW304_220528	Normal	EM2210253	0.19	<0.01	0.29	0.03	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW304_220829	Normal	EM2216985	0.15	<0.01	0.27	0.02	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_MW304_221130	Normal	EM2223925	0.11	<0.01	0.23	<0.02	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_MW304_231121	Normal	EM2320919	1.08	0.02	1.45	0.05	0.05	0.37	0.02	<0.02	<0.1	0.11	0.15	0.05	<0.02	<0.02	<0.02
MW306	18 Apr 2016	FF-MW1	Normal		190	130	190												
	17 Mar 2020	0937_MW306_20200317	Normal	EM2004711	726	117	3,360	277	329	2,630	94.8	<0.50	15.1	91.0	491	50.5	<0.50	<0.50	<0.50
	16 Jun 2020	0937_MW306_200616	Normal	EM2010514	568	83.3	2,380	180	224	1,810	72.0	<0.50	39.8	64.2	387	34.3	<0.50	<0.50	<0.50
	10 Nov 2020	0937_MW306_201011	Normal	EM2020050	724	61.4	2,260	146	177	1,540	60.0	<0.04	7.5	49.9	296	26.2	0.16	<0.04	<0.04
	28 Jan 2021	0937_MW306_210128	Normal	EM2101229	346	65.6	1,970	162	233	1,620	55.2	<0.04	21.3	58.7	326	33.4	0.19	<0.04	<0.04
	26 Apr 2021	0937_MW306_20210426	Normal	EM2107858	1,800	53.4	3,230	144	193	1,430	106	<0.04	43.6	57.4	294	24.5	0.28	<0.04	<0.04
		0937_QC101_20210426	Field_D	EM2107858	1,970	54.2	3,480	150	212	1,510	110	<0.04	37.4	57.4	312	23.0	0.41	<0.04	<0.04
		QC201_20210426	Interlab_D	792537	8.5	18	11.3	29	3.4	2.8	<0.5	<0.1	40	42	170	18	<0.1	<0.1	<0.1
	13 Jul 2021	0937_MW306_210713	Normal	EM2113872-AB	1,260	37.8	1,950	77.3	96.2	693	41.2	<0.04	11.2	30.0	160	15.7	0.10	<0.04	<0.04
		0937_QC101_210713	Field_D	EM2113872-AB	1,360	34.9	2,190	79.2	75.8	831	42.2	<0.04	9.6	35.3	174	14.6	0.15	<0.04	<0.04
		0937_QC201_210713	Interlab_D	811260	190	5.3	310	12	14	120	5.8	<0.01	3.2	5.0	24	2.0	0.13	<0.1	<0.01
	15 Nov 2021	0937_MW306_211115	Normal	EM2123080	2,210	30.0	2,950	62.8	67.6	738	56.8	<0.04	8.2	30.2	131	11.3	0.18	<0.04	<0.04
	15 Feb 2022	0937_MW306_220215	Normal	EM2202703	1,830	44.8	3,050	121	168	1,220	65.6	<0.05	28.2	49.2	255	26.2	0.31	0.06	<0.05
		0937_QC103_220215	Field_D	EM2202703	1,920	65	3,340	183	237	1,420	85.9	0.18	31.3	70.8	377	27.7	0.23	0.04	<0.02
		0937_QC203_220215	Interlab_D	864735	2,000	70	3,700	150	160	1,700	60	0.02	40	70	270	27	0.34	0.1	<0.01
	24 May 2022	0937_QC100_220524	Field_D	EM2210316	1,770	61.8	1,950	155	222	180	68.2	<0.40	30.7	75.4	319	25.9	<0.40	<0.40	<0.40
		0937_QC200_220524	Interlab_D	893740	480	66	1,250	140	120	770	79	<0.1	38	66	130	26	0.35	0.10	<0.01
	25 May 2022	0937_MW306_220525	Normal	EM2210316	1,560	71.0	3,040	149	202	1,480	79.3	<0.50	34.7	62.0	287	26.8	<0.50	<0.50	<0.50
	23 Aug 2022	0937_MW306_220823	Normal	EM2216476	2,070	34.9	2,930	84.6	113	859	59.8	<0.43	11.2	33.4	153	16.0	<0.43	<0.43	<0.43
		0937_QC102_220823	Field_D	EM2216476	1,800	35.0	2,840	102	155	1,040	72.1	<0.35	15.0	41.1	224	16.2	<0.35	<0.35	<0.35
		0937_QC202_220823	Interlab_D	922647	860	44	1,860	110	120	1,000	51	0.14	27	42	190	18	0.33	0.06	0.08
	22 Nov 2022	0937_MW306_221122	Normal	EM2223510	1,750	23.4	2,270	59.2	64.7	517	31.2	<0.35	5.3	22.6	107	10.7	<0.35	<0.35	<0.35
		0937_QC201_221122	Interlab_D	945182	1,900	18	2,330	44	44	430	21	<6	12	15	83	7.8	<6	<6	<6
	16 Nov 2023	0937_MW306_231116	Normal	EM2320952	958	29.0	1,570	77.9	92.0	613	28.8	<3.76	9.5	30.6	134	15.3	0.26	<0.04	<0.04

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW310	17 Oct 2015	35B	Normal		0.09	<0.02	0.09												
	03 May 2016	OMW002	Normal	EM1604970	0.14	<0.01	0.62	0.05	0.04	0.48	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.05
	02 Dec 2019	0937_OMW002_191202	Normal	EM1920780	0.23	0.01	0.49	0.02	0.03	0.26	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
		0937_QC208_191202	Interlab_D	692892	0.29	0.01	0.56	0.03	<0.01	0.27	0.01	<0.01	<0.05	0.01	0.05	<0.01	<0.01	<0.01	<0.01
	03 Dec 2019	0937_QC108_191202	Field_D	EM1920780	0.22	0.01	0.48	0.03	0.03	0.26	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	16 Mar 2020	0937_MW310_20200316	Normal	EM2004708	0.29	0.01	0.55	0.02	0.04	0.26	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW310_20200618	Normal	EM2010387	0.30	0.02	0.57	0.04	0.05	0.27	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW310_201112	Normal	EM2020052	0.15	<0.02	0.31	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW310_210203	Normal	EM2101560	0.25	0.01	0.49	0.02	0.03	0.24	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_MW310_20210428	Normal	EM2107805	0.39	0.01	0.66	0.05	0.03	0.27	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW310_210804	Normal	EM2115569	0.38	0.01	0.68	0.02	<0.02	0.30	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW310_211117	Normal	EM2123079	0.40	0.02	0.70	0.03	0.04	0.30	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW310_220222	Normal	EM2203192	0.42	0.02	0.71	0.04	0.03	0.29	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW310_220528	Normal	EM2210253	0.35	0.01	0.52	0.05	0.03	0.17	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW310_220829	Normal	EM2216985	0.44	0.02	0.73	0.04	0.04	0.29	0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_MW310_221130	Normal	EM2223925	0.31	0.01	0.63	0.03	0.02	0.32	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_MW310_231121	Normal	EM2320919	1.21	0.03	1.83	<0.02	0.08	0.62	0.05	<0.02	<0.1	0.16	0.26	0.04	<0.02	<0.02	<0.02
MW312	17 Oct 2015	35A	Normal		<0.02	<0.02	<0.02												
	03 May 2016	OMW003	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	02 Dec 2019	0937_OMW003_191202	Normal	EM1920780	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Mar 2020	0937_MW312_20200316	Normal	EM2004708	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW312_20200618	Normal	EM2010387	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW312_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW312_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_MW312_20210428	Normal	EM2107805	0.14	<0.01	0.19	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW312_210804	Normal	EM2115569	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW312_211117	Normal	EM2123079	0.08	<0.01	0.10	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW312_220222	Normal	EM2203192	0.08	<0.01	0.10	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW312_220528	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW312_220829	Normal	EM2216985	0.20	<0.01	0.26	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_MW312_221130	Normal	EM2223925	0.17	<0.01	0.25	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_MW312_231121	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW315	18 Apr 2016	FF-MW3	Normal		45	1.2	45												
	17 Mar 2020	0937_MW315_20200317	Normal	EM2004711	157	14.6	502	45.6	51.0	345	25.0	<0.05	3.1	14.2	81.0	7.60	0.06	<0.05	<0.05
	16 Jun 2020	0937_MW315_200616	Normal	EM2010514	87.3	21.5	583	81.1	87.4	496	24.5	<0.05	12.8	24.6	144	13.2	<0.05	<0.05	<0.05
	10 Nov 2020	0936_MW315_201110	Normal	EM2020050	77.9	8.17	284	40.8	35.2	206	15.0	<0.04	1.4	10.5	53.5	5.11	<0.04	<0.04	<0.04
	28 Jan 2021	0937_MW315_210128	Normal	EM2101229	121	10.4	391	51.2	40.2	270	20.2	<0.04	4.2	14.3	69.2	7.40	0.04	<0.04	<0.04
	16 Nov 2023	0937_MW315_231116	Normal	EM2320952	52.5	5.94	218	32.5	36.3	165	7.58	<0.04	3.6	10.8	50.8	4.85	<0.04	<0.04	<0.04

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW316	17 Oct 2015	UDA	Normal		<0.02	<0.02	<0.02												
	03 May 2016	OMW004	Normal	EM1604884	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	29 Nov 2019	0937_OMW004_191129	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW316_20200319	Normal	EM2004708	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Jun 2020	0937_MW316_20200619	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW316_201112	Normal	EM2020052	<0.01	<0.01	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_MW316_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_MW316_20210429	Normal	EM2107805	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_MW316_210805	Normal	EM2115569	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	0937_MW316_211118	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Feb 2022	0937_MW316_220224	Normal	EM2203192	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW316_220528	Normal	EM2210253	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW316_220829	Normal	EM2216985	0.89	<0.01	0.93	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_MW316_221130	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW316_231120	Normal	EM2320919	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW318	17 Oct 2015	UIA	Normal		<0.02	<0.02	<0.02												
	03 May 2016	OMW005	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	29 Nov 2019	0937_OMW005_191129	Normal	EM1920529	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW318_20200319	Normal	EM2004708	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Jun 2020	0937_MW318_20200619	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW318_201112	Normal	EM2020052	<0.01	<0.01	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_MW318_210203	Normal	EM2101560	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	27 Apr 2021	0937_MW318_20210427	Normal	EM2107805	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_MW318_210805	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW318_211117	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW318_220222	Normal	EM2203192	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW318_220528	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW318_220829	Normal	EM2216985	0.04	<0.01	0.05	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_MW318_221130	Normal	EM2223925	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW318_231120	Normal	EM2320919	0.11	<0.01	0.14	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW319	24 Oct 2017	P003_OEW005	Normal	EM1714625	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW319_191128	Normal	EM1920529-AC	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW319_20200319	Normal	EM2004707	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW319_20200618	Normal	EM2010382	0.01	<0.01	0.04	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW319_201112	Normal	EM2020041	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_MW319_210204	Normal	EM2101558	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Apr 2021	0937_MW319_20210429	Normal	EM2107856	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC112_20210429	Field_D	EM2107858	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_MW319_210806	Normal	EM2115478	0.04	<0.01	0.11	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	0.02	0.04	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW319_211118	Normal	EM2123001	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_MW319_220223	Normal	EM2203197	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_MW319_220529	Normal	EM2210255	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Sep 2022	0937_MW319_220901	Normal	EM2216994-AD	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC119_220901	Field_D	EM2216994-AD	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC219_220831	Interlab_D	922406	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	21 Nov 2023	0937_MW319_231121	Normal	EM2320912	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW321	17 Oct 2015	USA	Normal		<0.02	<0.02	<0.02												
	04 May 2016	OMW006	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	29 Nov 2019	0937_OMW006_191129	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW321_20200319	Normal	EM2004708	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Jun 2020	0937_MW321_20200619	Normal	EM2010387	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW321_201112	Normal	EM2020052	0.03	<0.01	0.03	0.05	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_MW321_210203	Normal	EM2101560	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	27 Apr 2021	0937_MW321_20210427	Normal	EM2107805	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_MW321_210805	Normal	EM2115569	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW321_211117	Normal	EM2123079	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_MW321_220222	Normal	EM2203192	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_MW321_220528	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW321_220829	Normal	EM2216985	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_MW321_221130	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW321_231120	Normal	EM2320919	0.11	<0.01	0.15	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02
MW323	01 Jun 2016	MW201D	Normal	EM1606406	13.6	0.8	49.3	11.6	8.32	35.7	1.43	<0.02	<0.1	0.62	3.52	0.52	<0.02	<0.02	<0.02
	27 Nov 2019	0937_MW201D_191127	Normal	EM1920529	20.4	1.79	54.9	9.08	7.21	34.5	3.39	<0.02	1.6	1.84	10.8	1.29	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW323_20200318	Normal	EM2004711	59.3	5.11	145	18.9	19.2	85.8	6.18	<0.05	1.2	4.76	23.5	3.54	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW323_20200617	Normal	EM2010514	22.1	1.71	48.7	7.72	6.35	26.6	2.23	<0.02	1.6	1.71	9.30	1.12	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW323_201111	Normal	EM2020050	19.2	1.20	37.7	5.42	4.23	18.5	1.59	<0.04	<0.2	1.12	5.18	0.75	<0.04	<0.04	<0.04
	03 Feb 2021	0937_MW323_210203	Normal	EM2101575	13.6	1.14	30.5	5.10	2.68	16.9	1.29	<0.04	0.4	1.21	5.23	0.81	<0.04	<0.04	<0.04
	27 Apr 2021	0937_ MW323_20210427	Normal	EM2107858	14.5	1.16	32.5	4.86	3.61	18.0	1.42	<0.02	1.6	1.28	6.26	0.84	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW323_210803	Normal	EM2115476	13.3	0.95	28.5	3.80	2.66	15.2	1.17	<0.04	0.4	1.09	5.09	0.63	<0.04	<0.04	<0.04
		0937_QC122_210803	Field_D	EM2115476	13.4	0.98	27.7	3.53	3.68	14.3	1.58	<0.02	1.1	1.08	4.38	0.58	<0.02	<0.02	<0.02
		0937_QC222_210803	Interlab_D	815502	16	1.7	37	5.0	4.4	21	1.4	<0.01	1.3	1.4	6.1	0.85	<0.01	<0.01	<0.01
	16 Nov 2021	0937_MW323_211116	Normal	EM2123080	40.6	3.49	91.5	11.2	10.0	50.9	3.66	<0.04	1.4	3.36	14.5	2.08	<0.04	<0.04	<0.04
	16 Feb 2022	0937_MW323_220216	Normal	EM2202703	61.4	5.49	136	20.4	19.3	75.1	8.78	0.21	3.9	6.15	32.3	3.77	<0.02	<0.02	<0.02
	25 May 2022	0937_MW323_220525	Normal	EM2210316	51.4	5.66	137	21.5	18.2	85.4	6.09	<0.05	4.7	6.10	28.2	3.84	<0.05	<0.05	<0.05
	24 Aug 2022	0937_MW323_220824	Normal	EM2216476	47.8	4.97	136	21.0	17.2	88.2	5.71	<0.04	1.8	4.86	22.7	3.62	<0.04	<0.04	<0.04
	23 Nov 2022	0937_MW323_221123	Normal	EM2223510	42.0	4.99	113	18.7	16.5	71.3	6.19	<0.03	1.4	4.89	24.1	3.41	<0.03	<0.03	<0.03
	15 Nov 2023	0937_MW323_231115	Normal	EM2320952	51.3	4.49	115	15.1	15.8	63.9	6.59	<0.04	2.1	4.16	19.7	2.94	<0.04	<0.04	<0.04
MW324	01 Jun 2016	MW202D	Normal	EM1606406	1.45	0.03	3.33	0.86	0.59	1.88	0.14	<0.02	<0.1	0.04	0.19	0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW324_20200318	Normal	EM2004711	28.3	1.76	61.4	6.34	6.42	33.1	2.28	<0.05	0.3	1.53	7.56	1.04	<0.05	<0.05	<0.05
	19 Jun 2020	0937_MW324_20200617	Normal	EM2010514	22.3	1.42	49.3	5.69	5.30	27.0	1.88	<0.02	0.9	1.47	7.54	0.88	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW324_201111	Normal	EM2020050	14.1	1.18	37.0	6.02	5.32	22.9	1.44	<0.04	<0.2	1.22	5.70	0.78	<0.04	<0.04	<0.04
	03 Feb 2021	0937_MW324_210203	Normal	EM2101575	15.9	1.34	41.8	6.65	4.18	25.9	1.56	<0.04	0.4	1.49	6.84	1.04	<0.04	<0.04	<0.04
	27 Apr 2021	0937_ MW324_20210427	Normal	EM2107858	9.42	0.88	25.9	4.61	3.43	16.5	1.02	<0.02	1.3	1.09	4.68	0.70	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW324_210803	Normal	EM2115476	22.6	2.48	69.0	12.5	8.99	46.4	2.98	<0.04	1.0	2.73	13.0	1.86	<0.04	<0.04	<0.04
	16 Nov 2021	0937_MW324_211116	Normal	EM2123080	47.4	5.63	149	21.0	20.5	102	5.21	<0.04	1.8	5.70	22.4	3.68	<0.04	<0.04	<0.04
	16 Feb 2022	0937_MW324_220216	Normal	EM2202703	76.8	9.12	230	35.3	44.3	153	8.12	<0.02	5.5	10.4	46.2	6.36	<0.02	<0.02	<0.02
	26 May 2022	0937_MW324_220526	Normal	EM2210316	94.7	7.90	233	24.7	29.7	138	10.4	<0.05	4.6	7.00	32.6	4.88	<0.05	<0.05	<0.05
	24 Aug 2022	0937_MW324_220824	Normal	EM2216476	77.6	6.14	195	23.4	23.4	117	7.66	<0.03	2.0	5.50	25.2	4.41	<0.03	<0.03	<0.03
		0937_QC108_220824	Field_D	EM2216476	84.2	5.60	212	22.8	32.4	128	10.7	<0.04	2.5	6.33	30.1	3.68	<0.04	<0.04	<0.04
		0937_QC208_220824	Interlab_D	922647	62	7.3	212	34	43	150	7.3	<0.01	6.1	8.4	25	5.4	0.01	<0.01	<0.01
	23 Nov 2022	0937_MW324_221123	Normal	EM2223510	73.2	7.04	203	26.1	29.1	130	10.0	<0.04	2.6	6.61	32.4	5.18	<0.04	<0.04	<0.04
	15 Nov 2023	0937_MW324_231115	Normal	EM2320952	41.9	3.98	106	12.0	15.9	64.4	5.66	<0.02	1.6	3.31	15.0	2.58	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW325	18 Oct 2016	MW706	Normal	EM1612450	0.14	3.12	28.84	18	9.91	28.7	0.32	<0.02	3.5	4.75	34.9	6.1	<0.02	<0.02	<0.02
	28 Oct 2016	MW706A	Normal	EM1612912	0.1	0.07	1.83	1.71	0.85	1.73	<0.05	<0.05	<0.1	0.76	1.94	0.29	<0.05	<0.05	<0.05
	16 Jun 2020	0937_MW325_200616	Normal	EM2010514	3.50	3.17	9.50	1.03	0.87	6.00	0.36	<0.02	4.8	14.2	8.49	4.77	0.42	0.07	<0.02
	14 Jul 2021	0937_MW325_210714	Normal	EM2113872-AB	2.90	1.55	5.14	0.40	0.26	2.24	0.16	<0.02	2.6	7.77	4.13	2.80	0.32	0.04	<0.02
	15 Nov 2021	0937_MW325_211115	Normal	EM2123080	5.03	1.44	6.52	0.19	0.17	1.49	0.15	<0.04	1.2	5.44	1.44	2.10	0.80	0.04	<0.02
	18 Feb 2022	0937_MW325_220218	Normal	EM2202703	6.52	2.13	11.2	2.91	1.65	4.63	0.31	<0.02	4.6	13.7	12.7	3.64	0.92	0.05	<0.02
	25 May 2022	0937_MW325_220525	Normal	EM2210316	4.41	1.65	9.14	3.57	2.18	4.73	0.21	<0.02	4.9	12.0	15.1	3.61	0.58	0.03	<0.02
	26 Aug 2022	0937_MW325_220826	Normal	EM2216476	3.20	1.05	4.80	0.38	0.26	1.60	0.12	<0.02	2.8	8.33	3.72	1.95	0.44	0.03	<0.02
	24 Nov 2022	0937_MW325_221124	Normal	EM2223510	4.75	1.55	8.84	0.84	0.62	4.09	0.24	<0.02	4.2	11.1	5.69	2.73	0.57	0.02	<0.02
	16 Nov 2023	0937_MW325_231116	Normal	EM2320952	2.87	1.58	6.81	1.17	0.98	3.94	0.25	<0.02	2.5	9.16	7.16	3.09	0.37	<0.02	<0.02
MW326	28 Oct 2016	MW727A	Normal	EM1612912	0.71	0.1	6.35	0.56	0.54	5.64	0.13	<0.02	<0.1	0.18	0.5	0.06	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW727A_191120	Normal	EM1920039	1.42	0.20	6.10	0.36	0.54	4.68	0.20	<0.02	<0.1	0.18	0.94	0.09	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW326_20200317	Normal	EM2004711	2.40	0.40	12.2	0.62	1.71	9.77	0.37	<0.02	0.2	0.38	1.82	0.23	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW326_20200616	Normal	EM2010514	5.89	0.70	19.6	1.12	1.79	13.7	1.06	<0.02	0.2	0.53	2.84	0.30	<0.02	<0.02	<0.02
	10 Nov 2020	0937_MW326_201110	Normal	EM2020050	17.1	0.82	38.8	1.99	2.71	21.7	0.98	<0.04	0.2	0.92	4.65	0.57	<0.04	<0.04	<0.04
	28 Jan 2021	0937_MW326_210128	Normal	EM2101229	6.90	0.51	20.3	1.17	1.82	13.4	0.64	<0.02	0.4	0.60	2.89	0.38	<0.02	<0.02	<0.02
	26 Apr 2021	0937_ MW326 _20210426	Normal	EM2107858	9.79	0.47	20.1	0.89	1.05	10.3	0.64	<0.02	0.3	0.46	2.03	0.28	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW326_210713	Normal	EM2113872-AB	12.2	0.53	22.0	0.93	0.87	9.85	0.74	<0.02	0.4	0.70	2.62	0.32	<0.02	<0.02	<0.02
		0937_QC100_210713	Field_D	EM2113872-AB	16.5	0.51	27.4	0.92	1.14	10.9	0.66	<0.02	0.4	0.59	2.04	0.31	<0.02	<0.02	<0.02
		0937_QC200_210713	Interlab_D	811260	8.8	0.49	23.8	1.1	2.0	15	0.64	<0.01	0.54	0.91	2.7	0.32	<0.01	<0.01	<0.01
	15 Nov 2021	0937_MW326_211115	Normal	EM2123080	9.90	0.59	22.5	1.01	1.18	12.6	0.49	<0.02	0.2	0.81	1.71	0.48	<0.02	<0.02	<0.02
		0937_QC109_211115	Field_D	EM2123080	10.3	0.64	22.9	1.00	2.49	12.6	1.14	<0.02	0.5	1.06	2.76	0.38	0.02	<0.02	<0.02
		0937_QC209_211115	Interlab_D	842318	15	0.82	31	1.4	1.8	16	0.63	<0.01	0.61	1.1	3.3	0.43	0.02	<0.01	<0.01
	15 Feb 2022	0937_MW326_220215	Normal	EM2202703	13.1	1.04	34.1	2.6	2.64	21	1.08	<0.02	0.8	1.95	6.43	0.72	<0.02	<0.02	<0.02
		0937_QC105_220215	Field_D	EM2202703	12.2	1.01	34.2	2.37	2.9	22	1.03	<0.02	0.7	1.77	6.15	0.71	0.02	<0.02	<0.02
		0937_QC205_220215	Interlab_D	864735	15	1	49	2.4	4.1	34	1.2	<0.01	0.9	1.2	5.5	0.66	0.03	<0.01	<0.01
	25 May 2022	0937_MW326_220525	Normal	EM2210316	13.4	0.79	30.9	1.68	2.70	17.5	1.22	<0.02	0.6	1.45	4.35	0.49	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW326_220823	Normal	EM2216476	8.98	0.44	18.4	0.69	0.80	9.37	0.59	<0.02	0.3	0.63	1.41	0.22	<0.02	<0.02	<0.02
	24 Nov 2022	0937_MW326_221124	Normal	EM2223510	9.21	0.40	18.1	0.78	1.10	8.89	0.48	<0.02	0.2	0.49	1.65	0.23	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW326_231116	Normal	EM2320952	8.05	0.48	16.5	0.70	1.02	8.43	0.48	<0.02	0.4	0.81	1.85	0.30	0.04	<0.02	<0.02
MW603	11 May 2016	MW603	Normal	EM1605366	0.07	0.02	0.61	0.06	0.05	0.54	<0.02	<0.02	<0.1	<0.02	0.15	<0.02	<0.02	<0.02	<0.05
		QCA106	Field_D	EM1605366	0.11	0.02	0.63	0.06	0.07	0.52	<0.02	<0.02	<0.1	<0.02	0.15	<0.02	<0.02	<0.02	<0.05
		QCB107	Interlab_D	500316	<0.01	0.02	<0.01												
	25 Nov 2019	0937_MW603_191125	Normal	EM1920529	1.02	0.03	1.64	0.07	0.07	0.62	0.04	<0.02	<0.1	<0.02	0.15	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW603_200616	Normal	EM2010514	0.16	0.03	0.47	0.03	0.03	0.31	<0.02	<0.02	<0.1	<0.02	0.14	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW603_210203	Normal	EM2101575	0.12	0.02	0.32	0.04	0.02	0.20	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW603_210802	Normal	EM2115476	0.08	0.02	1.21	0.23	0.14	1.13	<0.02	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW603_220216	Normal	EM2202703	0.44	0.03	1.5	0.22	0.17	1.06	0.05	<0.02	<0.1	0.04	0.33	<0.02	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW603_220823	Normal	EM2216476	0.09	0.02	0.55	0.08	0.06	0.46	<0.02	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW603_231116	Normal	EM2320952	1.46	0.05	3.52	0.28	0.24	2.06	0.11	<0.02	<0.1	0.05	0.39	0.03	<0.02	<0.02	<0.02
		0937_MW603_231116_02	Normal	EM2320952	0.68	0.03	2.12	0.27	0.23	1.44	0.06	<0.02	<0.1	0.03	0.26	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW607	19 Aug 2015	MW607	Normal	EM1513576	23.8	1.04	23.8												
	01 Jun 2016	MW607	Normal	EM1606406	27.4	0.61	46.2	2.16	2.36	18.8	1.61	<0.02	<0.1	0.26	1.79	0.27	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW607_191120	Normal	EM1920034	24.1	1.37	43.2	2.30	3.18	19.1	2.37	<0.02	0.3	0.91	4.48	0.53	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW607_20200317	Normal	EM2004711	35.5	1.72	62.3	2.78	4.02	26.8	2.70	<0.05	<0.2	1.27	6.16	0.80	<0.05	<0.05	<0.05
	16 Jun 2020	0937_MW607_200616	Normal	EM2010514	25.3	1.20	45.0	1.89	3.10	19.7	2.17	<0.02	0.7	0.83	4.03	0.50	<0.02	<0.02	<0.02
	10 Nov 2020	0937_MW607_201110	Normal	EM2020050	24.8	0.83	38.6	1.59	1.87	13.8	1.31	<0.04	0.3	0.60	2.95	0.41	<0.04	<0.04	<0.04
	28 Jan 2021	0937_MW607_210128	Normal	EM2101229	16.2	0.82	30.3	1.44	1.94	14.1	1.51	<0.02	0.4	0.61	2.94	0.40	<0.02	<0.02	<0.02
		0937_QC101_210128	Field_D	EM2101229	17.4	0.86	31.7	1.54	2.08	14.3	1.80	<0.02	0.6	0.67	3.17	0.43	<0.02	<0.02	<0.02
		0937_QC201_210128	Interlab_D	770470	58	1.2	84	1.8	3.1	26	3.5	<0.01	0.57	1.3	4.3	0.46	<0.01	<0.01	<0.01
	26 Apr 2021	0937_ MW607 _20210426	Normal	EM2107858	17.9	0.81	30.7	1.58	1.56	12.8	1.28	<0.02	0.6	0.57	3.33	0.39	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW607_210713	Normal	EM2113872-AB	11.4	0.62	19.5	1.10	0.98	8.06	1.18	<0.02	0.4	0.49	2.52	0.30	<0.02	<0.02	<0.02
	15 Nov 2021	0937_MW607_211115	Normal	EM2123080	11.7	0.57	21.3	1.16	1.06	9.62	0.78	<0.02	<0.2	0.44	1.32	0.36	<0.02	<0.02	<0.02
	24 Feb 2022	0937_MW607_220224	Normal	EM2203247	15.6	0.87	32.3	1.72	2.72	16.7	2.15	<0.02	0.5	0.67	3.3	0.44	<0.02	<0.02	<0.02
		0937_QC123_229224	Field_D	EM2203247	15.7	0.85	30.5	1.69	2.72	14.8	2.1	<0.02	0.5	0.65	3.19	0.45	<0.02	<0.02	<0.02
		0937_QC223_220224	Interlab_D	866689	21	1.3	42	2.6	2.9	21	1.5	<0.01	0.53	0.64	3.1	0.54	<0.01	<0.01	<0.01
	25 May 2022	0937_MW607_220525	Normal	EM2210316	22.7	0.98	38.8	2.20	2.14	16.1	1.52	<0.05	0.6	0.78	3.86	0.44	<0.05	<0.05	<0.05
	23 Aug 2022	0937_MW607_220823	Normal	EM2216476	15.6	0.80	30.6	2.41	2.70	15.0	1.35	<0.02	0.4	0.78	3.27	0.42	<0.02	<0.02	<0.02
	24 Nov 2022	0937_MW607_221124	Normal	EM2223510	15.2	0.89	33.6	3.63	4.59	18.4	1.75	<0.02	0.3	0.64	3.75	0.50	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW607_231115	Normal	EM2320952	1.50	0.03	2.18	0.10	0.06	0.68	0.09	<0.02	<0.1	0.06	0.13	<0.02	<0.02	<0.02	<0.02
		0937_QC108_231115	Field_D	EM2320952	1.47	0.03	2.06	0.14	0.08	0.59	0.07	<0.02	<0.1	0.04	0.11	<0.02	<0.02	<0.02	<0.02
		0937_QC208_231115	Interlab_D	1048259	1.6	0.03	2.26	0.10	0.09	0.66	0.08	<0.01	0.12	0.05	0.11	0.01	<0.01	<0.01	<0.01
MW609	11 May 2016	MW609	Normal	EM1605365	0.2	0.13	5.02	1.45	1.18	4.82	0.07	<0.02	<0.1	0.27	1.34	0.16	<0.02	<0.02	<0.05
	21 Nov 2019	0937_MW609_191120	Normal	EM1920039	0.35	0.14	4.94	1.29	1.12	4.59	0.08	<0.02	0.3	0.33	1.40	0.12	<0.02	<0.02	<0.02
	15 Jun 2020	0937_MW609_20200615	Normal	EM2010514	0.33	0.15	4.90	1.47	1.26	4.57	0.07	<0.02	0.3	0.32	1.52	0.13	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW609_210203	Normal	EM2101575	0.38	0.08	2.67	0.74	0.55	2.29	0.07	<0.02	0.2	0.17	0.72	0.08	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW609_210713	Normal	EM2113872-AB	0.43	0.10	3.53	0.72	0.50	3.10	0.07	<0.02	0.3	0.20	0.89	0.08	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW609_220215	Normal	EM2202703	0.42	0.14	4.06	1.2	0.94	3.64	0.08	<0.02	0.2	0.3	1.42	0.12	<0.02	<0.02	<0.02
		0937_QC202_220215	Interlab_D	864735	0.31	0.16	4.61	0.97	0.94	4.3	0.07	<0.01	0.36	0.3	1	0.12	<0.01	<0.01	<0.01
	18 Feb 2022	0937_QC102_220215	Field_D	EM2202703	0.37	0.11	3.75	1.03	0.81	3.38	0.07	<0.02	0.2	0.23	1.26	0.1	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW609_220823	Normal	EM2216476	0.18	0.06	1.98	0.65	0.43	1.80	0.02	<0.02	0.2	0.18	0.59	0.06	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW609_231115	Normal	EM2320952	0.20	0.06	2.17	0.49	0.47	1.97	0.05	<0.02	0.1	0.13	0.55	0.05	<0.02	<0.02	<0.02
		0937_QC109_231115	Field_D	EM2320952	0.18	0.06	2.23	0.57	0.50	2.05	0.05	<0.02	0.1	0.12	0.52	0.05	<0.02	<0.02	<0.02
		0937_QC209_231115	Interlab_D	1048259	0.17	0.06	1.97	0.48	0.52	1.8	0.03	<0.01	0.17	0.11	0.49	0.04	<0.01	<0.01	<0.01
MW610	02 Jun 2016	MW610	Normal	EM1606511	0.11	0.06	3.58	0.86	0.78	3.47	0.12	<0.02	<0.1	0.05	0.27	0.05	<0.02	<0.02	<0.02
		QCA116	Field_D	EM1606511	0.1	0.06	3.54	0.83	0.71	3.44	0.13	<0.02	<0.1	0.04	0.25	0.05	<0.02	<0.02	<0.02
		QCB117	Interlab_D	503282	0.05	0.17	2.65	0.85		2.6		<0.01	0.1	0.18	1	0.18	<0.01	<0.01	<0.01
	20 Nov 2019	0937_MW610_191120	Normal	EM1920039	1.62	0.36	7.73	1.03	1.07	6.11	0.45	<0.02	0.1	0.28	1.33	0.21	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW610_20200616	Normal	EM2010514	1.52	0.29	6.51	0.91	1.02	4.99	0.35	<0.02	0.3	0.18	1.17	0.19	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW610_210128	Normal	EM2101229	5.67	0.71	15.9	1.73	1.73	10.2	1.05	<0.02	0.7	0.44	2.18	0.45	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW610_210713	Normal	EM2113872-AB	3.61	0.51	10.6	1.27	0.96	7.02	0.71	<0.02	0.8	0.36	1.76	0.30	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW610_220215	Normal	EM2202703	4.02	0.72	13.8	2.31	2.2	9.76	0.79	<0.02	0.3	0.54	2.89	0.44	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW610_220823	Normal	EM2216476	3.77	0.45	9.51	1.44	1.15	5.74	0.72	<0.02	0.2	0.37	1.31	0.29	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW612	31 May 2016	MW612	Normal	EM1606406	1.85	0.03	3.97	0.14	0.14	2.12	0.11	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW612_191120	Normal	EM1920039	3.37	0.09	6.94	0.15	0.15	3.57	0.20	<0.02	<0.1	0.08	0.55	0.06	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW612_20200317	Normal	EM2004711	4.75	0.11	8.98	0.20	0.32	4.23	0.28	<0.02	0.1	0.11	0.77	0.08	<0.02	<0.02	<0.02
	13 Nov 2020	0937_MW612_201110	Normal	EM2020050	3.14	0.06	5.72	0.14	0.12	2.58	0.19	<0.02	<0.1	0.06	0.38	0.04	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW612_210128	Normal	EM2101229	2.55	0.06	4.93	0.14	0.10	2.38	0.16	<0.02	<0.1	0.07	0.41	0.05	<0.02	<0.02	<0.02
	22 Apr 2021	0937_ MW612_20210422	Normal	EM2107085	2.34	0.06	4.82	0.13	0.10	2.48	0.15	<0.02	<0.1	0.06	0.45	0.04	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW612_210713	Normal	EM2113872-AB	1.76	0.05	3.20	0.11	0.08	1.44	0.10	<0.02	<0.1	0.04	0.24	0.03	<0.02	<0.02	<0.02
	15 Nov 2021	0937_MW612_211115	Normal	EM2123080	1.50	0.04	2.81	0.12	0.15	1.31	0.08	<0.02	<0.1	0.04	0.20	0.03	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW612_220216	Normal	EM2202703	2.03	0.06	4	0.16	0.15	1.97	0.12	<0.02	<0.1	0.08	0.44	0.05	<0.02	<0.02	<0.02
	25 May 2022	0937_MW612_220525	Normal	EM2210316	3.54	0.06	6.39	0.14	0.12	2.85	0.19	<0.02	<0.1	0.07	0.44	0.05	<0.02	<0.02	<0.02
		0937_QC106_220525	Field_D	EM2210316	4.48	0.09	8.57	0.19	0.17	4.09	0.21	<0.02	<0.1	0.12	0.63	0.06	<0.02	<0.02	<0.02
		0937_QC206_220525	Interlab_D	893740	4.2	0.05	7.5	0.12	0.17	3.3	0.27	<0.01	<0.05	0.08	0.35	0.04	<0.01	<0.01	<0.01
	23 Aug 2022	0937_MW612_220823	Normal	EM2216476	2.16	0.05	4.17	0.11	0.10	2.01	0.16	<0.02	<0.1	0.07	0.32	0.04	<0.02	<0.02	<0.02
	24 Nov 2022	0937_MW612_221124	Normal	EM2223510	2.39	0.06	4.87	0.13	0.11	2.48	0.15	<0.02	<0.1	0.06	0.40	0.05	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW612_231116	Normal	EM2320952	3.24	0.07	5.82	0.13	0.13	2.58	0.21	<0.02	<0.1	0.06	0.39	0.05	<0.02	<0.02	<0.02
MW616	10 May 2016	MW616	Normal	EM1605278	184	10.4	315	21.9	20.4	131	5.5	<0.02	8.4	5.48	28.4	3.13	<0.02	<0.02	<0.05
	29 Nov 2019	0937_MW616_191129	Normal	EM1920529	308	15.2	458	23.8	31.3	150	15.7	0.09	4.4	7.34	41.2	6.90	<0.05	<0.05	<0.05
	17 Mar 2020	0937_MW616_20200317	Normal	EM2004711	536	28.2	825	39.5	49.0	289	31.9	0.19	5.7	12.2	74.0	13.9	0.08	<0.05	<0.05
	16 Jun 2020	0937_MW616_20200616	Normal	EM2010514	414	19.2	597	22.8	31.8	183	16.1	0.66	8.6	9.28	45.8	9.56	0.04	<0.02	<0.02
	13 Nov 2020	0937_MW616_201110	Normal	EM2020050	259	10.5	364	16.2	22.9	105	10.9	<0.04	3.4	5.17	29.1	5.76	<0.04	<0.04	<0.04
	28 Jan 2021	0937_MW616_210128	Normal	EM2101229	216	15.1	324	19.6	34.2	108	16.7	0.19	6.0	6.66	35.5	7.37	0.02	<0.02	<0.02
	28 Apr 2021	0937_ MW616_20210428	Normal	EM2107858	304	14.9	457	21.5	26.6	153	17.5	0.11	6.7	7.70	39.2	8.23	<0.04	<0.04	<0.04
	14 Jul 2021	0937_MW616_210714	Normal	EM2113872-AB	142	12.9	290	17.5	23.0	148	10.1	<0.04	3.0	5.56	26.2	6.14	<0.04	<0.04	<0.04
	12 Nov 2021	0937_MW616_211112	Normal	EM2123080	192	26.3	562	40.0	49.3	370	25.0	<0.04	5.8	12.0	53.3	10.7	<0.04	<0.04	<0.04
	16 Feb 2022	0937_MW616_220216	Normal	EM2202703	403	43.3	1,060	76.8	98.6	657	38.4	<0.05	10.5	23.1	122	18.9	0.08	<0.05	<0.05
	25 May 2022	0937_MW616_220525	Normal	EM2210316	309	32.4	819	44.2	63.2	510	34.6	<0.50	9.9	13.7	76.2	13.4	<0.50	<0.50	<0.50
	24 Aug 2022	0937_MW616_220824	Normal	EM2216476	476	36.3	1,010	47.2	64.8	533	41.7	0.10	5.8	13.2	71.5	14.8	0.07	<0.03	<0.03
	23 Nov 2022	0937_MW616_221123	Normal	EM2223510	359	34.8	819	50.0	66.8	460	39.4	0.11	4.6	13.7	76.8	14.4	0.12	<0.03	<0.03
	16 Nov 2023	0937_MW616_231116	Normal	EM2320952	250	25.7	601	31.9	55.0	351	26.9	<0.37	4.8	9.77	56.8	10.5	0.11	<0.04	<0.04
MW617	02 Jun 2016	MW617	Normal	EM1606511	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2019	0937_MW617_191129	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW617_200617	Normal	EM2010514	0.17	<0.01	0.29	0.04	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW617_210201	Normal	EM2101575	0.67	<0.01	0.73	0.03	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW617_210715	Normal	EM2113872-AB	0.11	<0.01	0.17	0.05	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW617_220216	Normal	EM2202703	0.08	<0.01	0.15	0.03	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW617_220825	Normal	EM2216476	0.35	<0.01	0.53	0.05	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW617_231115	Normal	EM2320952	0.50	<0.01	0.67	0.02	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
MW622	12 May 2016	MW622	Normal	EM1605438	161	5.21	287	22.1	16.5	126	11.5	<0.02	8.6	5.45	34.1	1.77	<0.02	<0.02	<0.05
	29 Nov 2019	0937_MW622_191129	Normal	EM1920529	350	7.68	508	15.5	19.5	158	19.7	<0.05	2.8	8.37	59.8	2.72	0.05	<0.05	<0.05
	11 Nov 2020	0937_MW622_20111	Normal	EM2020050	395	7.24	505	12.2	18.3	110	23.5	<0.04	3.4	6.72	39.6	2.51	0.04	<0.04	<0.04
	04 Aug 2021	0937_MW622_210803	Normal	EM2115476	551	8.86	695	13.9	11.0	144	19.6	0.06	1.4	6.94	38.8	2.92	0.07	<0.04	<0.04
	16 Nov 2021	0937_MW622_211116	Normal	EM2123080	129	9.03	391	75.9	61.4	262	11.1	<0.04	2.7	20.8	88.8	6.88	<0.04	<0.04	<0.04
	16 Feb 2022	0937_MW622_220216	Normal	EM2202703	292	19.3	810	102	87.9	518	39.7	<0.05	15.8	27.6	154	10.4	0.11	<0.05	<0.05
	26 May 2022	0937_MW622_220525	Normal	EM2210316	260	13.6	588	49.6	47.5	328	25.2	<0.50	11.5	15.0	78.7	6.40	<0.50	<0.50	<0.50
	24 Aug 2022	0937_MW622_220824	Normal	EM2216476	129	5.47	274	20.0	20.9	145	10.5	<0.04	1.1	5.48	26.1	2.63	<0.04	<0.04	<0.04
	23 Nov 2022	0937_MW622_221123	Normal	EM2223510	240	11.9	485	50.0	39.9	245	18.2	<0.04	2.3	13.1	65.3	5.76	0.10	<0.04	<0.04
	15 Nov 2023	0937_MW622_231115	Normal	EM2320952	254	9.96	472	34.6	43.5	218	19.6	<0.04	3.2	9.89	56.4	4.56	0.11	<0.04	<0.04
		0937_QC101_231115	Field_D	EM2320952	241	10.7	437	37.1	29.1	196	19.0	<0.03	2.3	9.52	50.6	5.02	0.13	<0.03	<0.03
		0937_QC201_231115	Interlab_D	1048259	210	7.2	370	28	23	160	10	<1	5.5	7.0	35	2.8	<1	<0.01	<0.01

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW623	02 Jun 2016	MW623	Normal	EM1606511	3.2	0.07	5.79	0.63	0.52	2.59	0.23	<0.02	<0.1	<0.02	0.22	0.03	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW623_191128	Normal	EM1920529	2.28	0.10	4.87	0.52	0.45	2.59	0.16	<0.02	0.2	0.13	0.60	0.06	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW623_210803	Normal	EM2115476	4.40	0.12	6.72	0.54	0.44	2.32	0.16	<0.02	0.2	0.15	0.53	0.05	<0.02	<0.02	<0.02
		0937_QC121_210803	Field_D	EM2115476	3.73	0.11	5.87	0.54	0.41	2.14	0.18	<0.02	0.3	0.14	0.48	0.05	<0.02	<0.02	<0.02
		0937_QC221_210803	Interlab_D	815502	4.9	0.14	7.3	0.54	0.40	2.4	0.14	<0.01	0.22	0.19	0.59	0.07	<0.01	<0.01	<0.01
	16 Feb 2022	0937_MW623_220216	Normal	EM2202703	4.86	0.19	7.99	0.88	0.66	3.13	0.25	<0.02	0.2	0.22	0.99	0.08	<0.02	<0.02	<0.02
	24 Aug 2022	0937_MW623_220824	Normal	EM2216476	4.13	0.12	6.50	0.52	0.38	2.37	0.22	<0.02	<0.1	0.14	0.37	0.06	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW623_231115	Normal	EM2320952	4.77	0.13	7.19	0.52	0.40	2.42	0.24	<0.02	0.1	0.12	0.50	0.06	<0.02	<0.02	<0.02
		0937_QC100_231115	Field_D	EM2320952	3.64	0.12	6.23	0.49	0.48	2.59	0.20	<0.02	0.1	0.12	0.52	0.06	<0.02	<0.02	<0.02
		0937_QC200_231115	Interlab_D	1048259	4.4	0.11	6.6	0.47	0.48	2.2	0.22	<0.01	0.16	0.10	0.46	0.05	<0.01	<0.01	<0.01
MW626	12 May 2016	MW626	Normal	EM1605438	0.02	<0.01	0.06	0.03	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	27 Nov 2019	0937_MW626_191127	Normal	EM1920529	0.06	<0.01	0.32	0.17	0.10	0.26	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW626_200617	Normal	EM2010514	0.24	0.02	0.64	0.20	0.12	0.40	<0.02	<0.02	<0.1	0.03	0.10	<0.02	<0.02	<0.02	<0.02
		0937_QC100_200617	Field_D	EM2010514	0.21	0.01	0.58	0.20	0.11	0.37	<0.02	<0.02	<0.1	0.03	0.10	<0.02	<0.02	<0.02	<0.02
		0937_QC200_200617	Interlab_D	726765	0.15	<0.01	0.38	0.11	0.06	0.23	<0.01	<0.01	<0.05	0.02	0.06	<0.01	<0.01	<0.01	<0.01
	03 Feb 2021	0937_MW626_210203	Normal	EM2101575	0.66	0.11	2.26	0.47	0.24	1.60	0.09	<0.02	0.2	0.80	1.13	0.24	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW626_210803	Normal	EM2115476	2.37	0.13	4.58	0.29	0.19	2.21	0.12	<0.02	0.1	1.27	1.43	0.49	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW626_220216	Normal	EM2202703	4.56	0.22	7.37	0.47	0.39	2.81	0.17	<0.02	0.2	1.47	2.05	0.5	<0.02	<0.02	<0.02
	24 Aug 2022	0937_MW626_220824	Normal	EM2216476	2.00	0.08	3.52	0.32	0.25	1.52	0.09	<0.02	0.1	0.68	0.60	0.24	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW626_231115	Normal	EM2320952	0.76	0.12	5.28	1.53	1.24	4.52	0.03	<0.02	0.5	1.40	2.00	0.79	<0.02	<0.02	<0.02
MW627	12 May 2016	MW627	Normal	EM1605438	12.3	0.7	24.1	1.74	1.8	11.8	0.74	<0.02	<0.1	0.48	2.5	0.3	<0.02	<0.02	<0.05
	28 Nov 2019	0937_MW627_191128	Normal	EM1920529	15.7	0.99	46.7	3.79	5.59	31.0	1.81	<0.02	0.8	1.05	5.24	0.59	<0.02	<0.02	<0.02
		0937_QC101_191128	Field_D	EM1920529	2.23	0.10	4.87	0.52	0.45	2.64	0.17	<0.02	0.2	0.12	0.60	0.06	<0.02	<0.02	<0.02
		0937_QC201_191128	Interlab_D	EM1920529	2.29	0.10	4.89	0.52	0.45	2.60	0.16	<0.02	0.2	0.13	0.62	0.07	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW627_200617	Normal	EM2010514	10.9	1.44	33.9	4.89	4.88	23.0	1.28	<0.02	1.0	1.27	6.62	0.69	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW627_201111	Normal	EM2020050	16.7	1.02	33.9	3.32	2.94	17.2	1.00	<0.04	0.7	0.97	5.12	0.57	<0.04	<0.04	<0.04
	03 Feb 2021	0937_MW627_210203	Normal	EM2101575	11.6	0.89	28.3	2.89	1.98	16.7	0.96	<0.04	<0.2	1.02	4.63	0.51	<0.04	<0.04	<0.04
	27 Apr 2021	0937_ MW627 _20210427	Normal	EM2107858	11.4	0.91	28.5	3.12	2.76	17.1	1.02	<0.02	0.9	1.03	5.00	0.56	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW627_210803	Normal	EM2115476	16.5	1.32	38.9	2.86	1.93	22.4	1.81	<0.02	0.9	1.19	5.26	0.62	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW627_211116	Normal	EM2123080	14.2	1.90	48.8	3.33	2.93	34.6	1.57	<0.02	0.5	1.47	7.18	1.09	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW627_220216	Normal	EM2202703	15.1	2.65	62.5	10.8	7.56	47.4	2.15	<0.02	4	5.42	30.8	1.73	<0.02	<0.02	<0.02
	25 May 2022	0937_QC213_220525	Interlab_D	893740	20	2.1	58	4.5	4.3	38	1.9	<0.01	1.5	2.5	13	0.98	<0.01	<0.01	<0.01
	26 May 2022	0937_MW627_220525	Normal	EM2210316	17.7	1.88	52.6	4.99	6.13	34.9	2.77	<0.02	1.5	2.63	13.7	0.94	<0.02	<0.02	<0.02
		0937_QC113_220525	Field_D	EM2210316	17.5	2.00	54.5	5.24	4.97	37.0	1.77	<0.02	1.3	2.43	13.9	1.03	<0.02	<0.02	<0.02
	24 Aug 2022	0937_MW627_220824	Normal	EM2216476	25.6	1.44	52.4	3.28	4.46	26.8	2.16	<0.02	0.4	1.59	5.62	0.75	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW627_221123	Normal	EM2223510	15.2	1.35	37.2	3.43	4.92	22.0	1.46	<0.02	0.6	1.13	7.21	0.64	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW627_231115	Normal	EM2320952	15.8	1.33	37.6	3.85	4.01	21.8	1.37	<0.02	0.7	1.62	7.92	0.74	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW628	20 Aug 2015	MW628	Normal	EM1513576	6.33	0.39	6.33												
	01 Jun 2016	MW628	Normal	EM1606406	5.74	0.22	15.94	2.4	2.34	10.2	0.37	<0.02	<0.1	0.1	0.62	0.1	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW628_191128	Normal	EM1920529	5.02	0.21	9.52	0.93	0.85	4.50	0.26	<0.02	0.2	0.23	1.12	0.12	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW628_20200318	Normal	EM2004711	7.33	0.40	14.7	1.48	1.55	7.33	0.34	<0.05	<0.2	0.42	2.02	0.22	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW628_20200617	Normal	EM2010514	4.86	0.27	9.68	1.05	1.02	4.82	0.26	<0.02	0.2	0.28	1.60	0.14	<0.02	<0.02	<0.02
	09 Nov 2020	0937_MW628_201109	Normal	EM2020050	3.76	0.24	10.0	1.47	1.29	6.27	0.26	<0.02	0.3	0.22	1.09	0.14	<0.02	<0.02	<0.02
	29 Jan 2021	0937_MW628_210129	Normal	EM2101229	4.46	0.24	11.2	1.33	1.12	6.74	0.26	<0.02	0.2	0.21	1.12	0.12	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW628 _20210420	Normal	EM2107085	3.72	0.19	7.92	1.05	0.78	4.20	0.22	<0.02	0.2	0.18	0.96	0.11	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW628_210803	Normal	EM2115476	2.23	0.18	17.4	2.39	1.42	15.2	0.26	<0.02	0.1	0.16	0.99	0.10	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW628_211116	Normal	EM2123080	2.54	0.17	21.8	2.28	2.06	19.3	0.26	<0.02	0.1	0.14	0.50	0.15	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW628_220217	Normal	EM2202703	3.97	0.29	21.2	3.81	4.06	17.2	0.34	<0.02	0.2	0.31	1.86	0.19	<0.02	<0.02	<0.02
	31 May 2022	0937_MW628_220530	Normal	EM2210316	3.94	0.22	13.9	1.78	1.77	9.95	0.29	<0.02	0.2	0.24	1.17	0.12	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW628_220825	Normal	EM2216476	1.42	0.07	19.3	1.70	2.34	17.9	0.24	<0.02	<0.1	0.08	0.36	0.06	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW628_221123	Normal	EM2223510	1.97	0.14	11.0	1.41	1.54	9.08	0.18	<0.02	<0.1	0.12	0.83	0.08	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW628_231116	Normal	EM2320952	2.52	0.16	13.9	1.91	1.62	11.4	0.30	<0.02	<0.1	0.21	1.00	0.11	<0.02	<0.02	<0.02
MW636	20 Aug 2015	MW636	Normal	EM1513576	<0.02	<0.02	<0.02												
	13 May 2016	MW636	Normal	EM1605449	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
	14 Jul 2021	0937_MW636_210714	Normal	EM2113872-AB	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW636_211117	Normal	EM2123080	0.04	0.08	0.85	0.14	0.13	0.81	<0.02	<0.02	0.2	0.24	0.37	0.08	<0.02	<0.02	<0.02
	21 Feb 2022	0937_MW636_220221	Normal	EM2203247	0.47	0.09	1.34	0.12	0.1	0.87	0.03	<0.02	0.2	0.21	0.39	0.08	<0.02	<0.02	<0.02
		0937_QC121_220221	Field_D	EM2203247	0.49	0.1	1.42	0.12	0.11	0.93	0.03	<0.02	0.2	0.21	0.4	0.08	<0.02	<0.02	<0.02
		0937_QC221_220221	Interlab_D	866689	0.63	0.12	1.73	0.13	0.10	1.1	0.02	<0.01	0.23	0.25	0.42	0.10	<0.01	<0.01	<0.01
	25 May 2022	0937_MW636_220525	Normal	EM2210316	0.60	0.10	1.58	0.12	0.11	0.98	0.03	<0.02	0.2	0.22	0.43	0.08	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW636_220823	Normal	EM2216476	0.38	0.08	1.20	0.10	0.09	0.82	0.03	<0.02	<0.1	0.18	0.21	0.07	<0.02	<0.02	<0.02
		0937_QC104_220823	Field_D	EM2216476	0.35	0.08	0.99	0.10	0.07	0.64	0.02	<0.02	0.2	0.20	0.27	0.06	<0.02	<0.02	<0.02
		0937_QC204_220823	Interlab_D	922647	0.45	0.08	1.31	0.09	0.08	0.86	0.03	<0.01	0.15	0.14	0.32	0.07	<0.01	<0.01	<0.01
	24 Nov 2022	0937_MW636_221124	Normal	EM2223510	0.36	0.07	1.12	0.10	0.09	0.76	0.02	<0.02	<0.1	0.13	0.26	0.05	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW636_231116	Normal	EM2320952	0.36	0.07	1.08	0.17	0.08	0.72	0.02	<0.02	<0.1	0.13	0.24	0.06	<0.02	<0.02	<0.02
MW701	18 Oct 2016	MW701	Normal	EM1612450	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW701_191128	Normal	EM1920529	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW701_20200318	Normal	EM2004711	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW701_20200617	Normal	EM2010514	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW701_201111	Normal	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0947_MW701_210201	Normal	EM2101575	0.06	<0.01	0.12	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW701 _20210420	Normal	EM2107085	0.09	<0.01	0.15	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW701_210803	Normal	EM2115476	0.03	<0.01	0.07	0.07	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW701_211116	Normal	EM2123080	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW701_220216	Normal	EM2202703	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	26 May 2022	0937_MW701_220526	Normal	EM2210316	0.05	<0.01	0.09	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW701_220825	Normal	EM2216476	0.20	0.01	0.39	0.03	0.03	0.19	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02
		0937_QC110_220825	Field_D	EM2216476	0.20	0.01	0.39	0.04	0.02	0.19	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02
		0937_QC210_220825	Interlab_D	922647	0.23	0.01	0.44	0.03	0.03	0.21	0.01	<0.01	<0.05	<0.01	0.08	0.02	<0.01	<0.01	<0.01
	23 Nov 2022	0937_MW701_221123	Normal	EM2223510	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW701_231115	Normal	EM2320952	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW702	19 Oct 2016	MW702	Normal	EM1612530	4.72	0.23	14.57	1.45	0.86	6.36	0.22	<0.02	<0.1	0.14	0.6	0.13	<0.02	<0.02	<0.02
					7.02	0.27		1.68	1.31	7.55	0.32		1.3	1.23	3.63	0.19			
	28 Nov 2019	0937_MW702_191128	Normal	EM1920529	3.78	0.26	7.94	0.93	0.82	4.16	0.24	<0.02	0.2	0.26	1.39	0.16	<0.02	<0.02	<0.02
		0937_QC104_191128	Field_D	EM1920529	3.68	0.25	7.97	0.96	0.86	4.29	0.25	<0.02	0.2	0.27	1.37	0.16	<0.02	<0.02	<0.02
		0937_QC204_191128	Interlab_D	EM1920529	3.73	0.26	8.23	0.98	0.90	4.50	0.27	<0.02	0.2	0.28	1.40	0.16	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW702_20200318	Normal	EM2004711	11.7	0.78	22.1	2.00	2.16	10.4	0.63	<0.05	<0.2	0.60	3.14	0.41	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW702_200617	Normal	EM2010514	7.86	0.46	14.3	1.07	1.30	6.42	0.41	<0.02	0.3	0.32	1.90	0.23	<0.02	<0.02	<0.02
	09 Nov 2020	0937_MW702_201109	Normal	EM2020050	4.63	0.23	8.33	0.72	0.73	3.70	0.18	<0.04	<0.2	0.21	1.11	0.14	<0.04	<0.04	<0.04
	29 Jan 2021	0937_MW702_210129	Normal	EM2101229	3.82	0.27	7.69	0.74	0.64	3.87	0.26	<0.02	0.2	0.22	1.12	0.13	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW702 _20210420	Normal	EM2107085	7.14	0.32	11.8	0.85	0.74	4.62	0.44	<0.02	0.2	0.24	1.23	0.18	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW702_210715	Normal	EM2113872-AB	6.62	0.32	10.9	0.86	0.54	4.24	0.41	<0.02	0.2	0.24	1.20	0.15	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW702_211116	Normal	EM2123080	5.33	0.26	8.42	0.62	0.52	3.09	0.19	<0.02	<0.2	0.19	0.61	0.15	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW702_220217	Normal	EM2202703	6.99	0.39	12	1.16	0.99	5.02	0.35	<0.02	0.2	0.33	1.86	0.21	<0.02	<0.02	<0.02
	31 May 2022	0937_MW702_220530	Normal	EM2210316	7.51	0.36	12.6	0.88	0.83	5.10	0.30	<0.02	0.2	0.30	1.37	0.19	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW702_220825	Normal	EM2216476	8.12	0.34	13.6	0.73	0.80	5.43	0.39	<0.02	<0.1	0.27	0.86	0.17	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW702_221123	Normal	EM2223510	8.17	0.34	13.1	0.78	0.83	4.96	0.35	<0.02	<0.1	0.18	1.02	0.15	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW702_231115	Normal	EM2320952	10.7	0.37	15.6	0.95	0.82	4.85	0.41	<0.02	0.1	0.18	0.90	0.18	<0.02	<0.02	<0.02
MW704	18 Oct 2016	MW704	Normal	EM1612450	261	7.96	523	55.4	34.4	262	11.2	<0.02	<0.1	5.57	35.5	3.27	<0.02	<0.02	<0.02
	27 Nov 2019	0937_MW704_191127	Normal	EM1920529	36.7	1.84	89.6	6.56	7.06	52.9	4.25	<0.02	1.0	1.63	9.72	1.06	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW704_20200318	Normal	EM2004711	48.5	2.80	101	7.16	8.85	52.4	3.62	<0.05	0.5	2.30	11.7	1.50	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW704_200617	Normal	EM2010514	17.5	1.05	36.2	2.58	3.93	18.7	1.66	<0.02	0.6	0.82	4.32	0.55	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW704_201111	Normal	EM2020050	1.30	0.05	2.46	0.18	0.17	1.16	0.08	<0.02	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW704_210203	Normal	EM2101575	49.6	3.04	103	8.47	6.67	53.8	4.20	<0.04	0.8	2.35	12.5	1.82	<0.04	<0.04	<0.04
	28 Apr 2021	0937_ MW704_20210428	Normal	EM2107858	4.76	0.28	10.4	0.91	0.77	5.62	0.35	<0.02	0.2	0.24	1.29	0.19	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW704_210803	Normal	EM2115476	3.81	0.35	10.3	1.02	0.71	6.49	0.47	<0.02	0.2	0.31	1.63	0.19	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW704_211116	Normal	EM2123080	4.27	0.40	12.4	1.26	1.09	8.08	0.40	<0.02	<0.2	0.35	1.13	0.29	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW704_220216	Normal	EM2202703	20.2	1.48	49.9	4.74	5.04	29.7	1.92	<0.02	0.7	1.57	7.71	0.97	<0.02	<0.02	<0.02
	25 May 2022	0937_MW704_220525	Normal	EM2210316	38.3	2.49	83.5	7.30	12.0	45.2	5.15	<0.02	1.3	1.99	11.5	1.22	<0.02	<0.02	<0.02
	24 Aug 2022	0937_MW704_220824	Normal	EM2216476	33.6	2.26	77.4	6.62	8.39	43.8	3.30	<0.03	0.5	1.82	10.3	1.31	<0.03	<0.03	<0.03
	23 Nov 2022	0937_MW704_221123	Normal	EM2223510	34.7	2.63	78.3	7.07	7.37	43.6	4.58	<0.02	0.8	1.87	9.42	1.46	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW704_231115	Normal	EM2320952	35.6	2.57	74.4	7.92	7.52	38.8	3.32	<0.02	0.8	1.38	8.93	1.43	<0.02	<0.02	<0.02
MW705	18 Oct 2016	MW705	Normal	EM1612450	0.41	0.01	0.94	0.09	0.05	0.53	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	27 Nov 2019	0937_MW705_191127	Normal	EM1920529	0.12	<0.01	0.23	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW705_20200318	Normal	EM2004711	1.53	0.04	2.19	0.06	0.15	0.66	0.05	<0.02	<0.1	0.03	0.15	0.04	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW705_200617	Normal	EM2010514	0.33	<0.01	0.53	0.04	0.02	0.20	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW705_201111	Normal	EM2020050	0.20	<0.01	0.34	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_MW705_210203	Normal	EM2101575	0.70	0.02	1.02	0.22	0.03	0.32	0.03	<0.02	<0.1	0.02	0.09	0.03	<0.02	<0.02	<0.02
	27 Apr 2021	0937_ MW705 _20210428	Normal	EM2107858	0.10	<0.01	0.23	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW705_210803	Normal	EM2115476	0.10	<0.01	0.24	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW705_211116	Normal	EM2123080	0.20	<0.01	0.35	0.18	0.03	0.15	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW705_220216	Normal	EM2202703	0.74	0.03	1.12	0.17	0.05	0.38	0.03	<0.02	<0.1	0.03	0.13	0.02	<0.02	<0.02	<0.02
	25 May 2022	0937_MW705_220525	Normal	EM2210316	0.80	0.02	1.14	0.07	0.04	0.34	0.03	<0.02	<0.1	0.03	0.11	0.02	<0.02	<0.02	<0.02
	24 Aug 2022	0937_MW705_220824	Normal	EM2216476	0.86	0.02	1.19	0.09	0.05	0.33	0.03	<0.02	<0.1	0.03	0.07	0.02	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW705_221123	Normal	EM2223510	0.93	0.02	1.20	0.10	0.03	0.27	0.02	<0.02	<0.1	<0.02	0.08	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW705_231115	Normal	EM2320952	1.61	0.02	1.89	0.07	0.04	0.28	0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
		0937_QC102_231115	Field_D	EM2320952	1.79	0.02	2.11	0.09	0.04	0.32	0.04	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
		0937_QC202_231115	Interlab_D	1048259	1.2	<0.01	1.41	0.03	0.02	0.21	0.02	<0.01	<0.05	<0.01	0.03	<0.01	<0.01	<0.01	<0.01

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW707	19 Oct 2016	MW707	Normal	EM1612530	5.3	0.05	7.53	0.35	0.24	2.23	0.15	<0.02	<0.1	0.05	0.16	0.04	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW707_191128	Normal	EM1920529	10.3	0.13	12.3	0.28	0.27	2.00	0.18	<0.02	0.1	0.11	0.45	0.07	<0.02	<0.02	<0.02
	20 Mar 2020	0937_MW707_20200318	Normal	EM2004711	11.6	0.26	14.9	0.32	0.46	3.26	0.27	<0.05	<0.2	0.18	0.80	0.12	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW707_20200617	Normal	EM2010514	3.18	0.17	4.99	0.51	0.27	1.81	0.13	<0.02	<0.1	0.13	0.58	0.09	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW707_201111	Normal	EM2020050	2.41	0.08	3.43	0.28	0.18	1.02	0.09	<0.02	<0.1	0.08	0.36	0.06	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW707_210201	Normal	EM2101575	4.24	0.11	5.70	0.43	0.16	1.46	0.09	<0.02	<0.2	0.10	0.37	0.06	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW707 _20210420	Normal	EM2107085	5.81	0.13	7.33	0.22	0.17	1.52	0.18	<0.02	<0.1	0.09	0.41	0.06	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW707_210804	Normal	EM2115476	4.54	0.13	6.12	0.19	0.15	1.58	0.16	<0.02	<0.1	0.09	0.40	0.06	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW707_211116	Normal	EM2123080	3.16	0.08	4.20	0.19	0.18	1.04	0.07	<0.02	<0.1	0.10	0.35	0.04	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW707_220216	Normal	EM2202703	2.99	0.14	5.15	0.36	0.28	2.16	0.1	<0.02	<0.1	0.15	0.6	0.08	<0.02	<0.02	<0.02
	31 May 2022	0937_MW707_220530	Normal	EM2210316	2.90	0.10	4.75	0.22	0.23	1.85	0.07	<0.02	<0.1	0.17	0.41	0.06	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW707_220825	Normal	EM2216476	2.18	0.08	3.76	0.20	0.20	1.58	0.07	<0.02	<0.1	0.10	0.22	0.05	<0.02	<0.02	<0.02
		0937_QC112_220825	Field_D	EM2216476	2.24	0.08	3.80	0.21	0.19	1.56	0.08	<0.02	<0.1	0.11	0.24	0.06	<0.02	<0.02	<0.02
		0937_QC212_220825	Interlab_D	922647	2.7	0.09	4.3	0.24	0.20	1.6	0.08	<0.01	0.07	0.09	0.33	0.06	<0.01	<0.01	<0.01
	29 Nov 2022	0937_MW707_221129	Normal	EM2223972	1.48	0.07	2.80	0.20	0.19	1.32	0.05	<0.02	<0.1	0.08	0.24	0.04	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW707_231115	Normal	EM2320952	1.76	0.07	3.14	0.25	0.20	1.38	0.06	<0.02	<0.1	0.08	0.27	0.05	<0.02	<0.02	<0.02
MW708	18 Oct 2016	MW708	Normal	EM1612450	7.66	0.29	14.84	0.84	0.4	7.18	0.25	<0.02	<0.1	0.21	0.51	0.14	<0.02	<0.02	<0.02
	29 Nov 2019	0937_MW708_191129	Normal	EM1920529	0.67	0.10	2.77	0.15	0.18	2.10	0.07	<0.02	0.2	1.10	0.91	0.25	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW708_20200318	Normal	EM2004711	0.37	0.13	2.95	0.31	0.57	2.58	0.09	<0.02	0.5	1.69	1.59	0.32	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW708_20200617	Normal	EM2010514	0.34	0.08	1.82	0.20	0.25	1.48	0.04	<0.02	0.2	0.77	0.82	0.16	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW708_201111	Normal	EM2020050	0.14	0.03	0.67	0.66	0.07	0.53	<0.02	<0.02	<0.1	0.22	0.31	0.07	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW708_210201	Normal	EM2101575	0.27	0.04	1.07	0.17	0.07	0.80	0.03	<0.02	<0.1	0.23	0.29	0.08	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW708 _20210420	Normal	EM2107085	0.40	0.05	1.37	0.12	0.09	0.97	0.04	<0.02	0.2	0.43	0.40	0.08	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW708_210804	Normal	EM2115476	0.33	0.06	1.57	0.12	0.10	1.24	0.05	<0.02	<0.1	0.22	0.29	0.09	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW708_211116	Normal	EM2123080	0.55	0.07	1.67	0.13	0.11	1.12	0.04	<0.02	<0.1	0.12	0.16	0.05	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW708_220217	Normal	EM2202703	0.62	0.18	3.22	0.21	0.17	2.6	0.08	<0.02	<0.1	0.23	0.4	0.12	<0.02	<0.02	<0.02
	31 May 2022	0937_MW708_220530	Normal	EM2210316	0.69	0.13	3.79	0.21	0.28	3.10	0.08	<0.02	0.1	0.53	0.53	0.14	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW708_220825	Normal	EM2216476	0.48	0.15	3.69	0.15	0.23	3.21	0.08	<0.02	<0.1	0.27	0.26	0.12	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW708_221123	Normal	EM2223510	0.48	0.16	2.77	0.17	0.19	2.29	0.08	<0.02	<0.1	0.26	0.33	0.10	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW708_231115	Normal	EM2320952	0.73	0.10	2.11	0.14	0.14	1.38	0.09	<0.02	<0.1	0.22	0.29	0.09	<0.02	<0.02	<0.02
MW709	19 Oct 2016	MW709	Normal	EM1612530	2.45	0.12	7.84	1.32	0.86	5.39	0.18	<0.02	<0.1	0.1	0.4	0.09	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW709_191128	Normal	EM1920529	4.38	0.30	12.5	1.67	1.94	8.11	0.45	<0.02	0.3	0.32	1.75	0.21	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW709_20200318	Normal	EM2004711	5.69	0.30	16.5	2.07	3.17	10.8	0.48	<0.02	0.4	0.50	2.25	0.27	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW709_20200617	Normal	EM2010514	5.94	0.41	15.0	1.91	2.27	9.01	0.48	<0.02	0.4	0.38	2.10	0.24	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW709_201111	Normal	EM2020050	5.13	0.27	11.4	1.43	1.33	6.25	0.25	<0.04	<0.2	0.27	1.44	0.19	<0.04	<0.04	<0.04
	01 Feb 2021	0937_MW709_210201	Normal	EM2101575	4.27	0.32	10.7	1.51	0.96	6.46	0.35	<0.02	<0.1	0.30	1.60	0.22	<0.02	<0.02	<0.02
	27 Apr 2021	0937_ MW709 _20210427	Normal	EM2107858	4.84	0.28	11.3	1.47	1.28	6.50	0.33	<0.02	0.3	0.29	1.57	0.18	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW709_210715	Normal	EM2113872-AB	3.90	0.27	9.57	1.19	0.92	5.67	0.33	<0.02	0.3	0.30	1.56	0.16	<0.02	<0.02	<0.02
		0937_QC119_210715	Field_D	EM2113872-AB	3.74	0.28	9.47	1.20	0.96	5.73	0.35	<0.02	0.2	0.28	1.53	0.17	<0.02	<0.02	<0.02
		0937_QC219_210715	Interlab_D	811260	6.5	0.36	15.7	1.3	1.9	9.2	0.53	<0.01	0.31	0.37	1.9	0.18	<0.01	<0.01	<0.01
	16 Nov 2021	0937_MW709_211116	Normal	EM2123080	3.10	0.26	8.32	1.03	1.44	5.22	0.37	<0.02	0.2	0.30	1.27	0.16	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW709_220216	Normal	EM2202703	3.83	0.38	10.7	1.8	1.77	6.84	0.33	<0.02	0.2	0.4	2.16	0.23	<0.02	<0.02	<0.02
	31 May 2022	0937_MW709_220530	Normal	EM2210316	5.72	0.36	13.9	1.71	1.69	8.22	0.43	<0.02	0.3	0.59	2.01	0.24	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW709_220825	Normal	EM2216476	4.65	0.26	10.4	1.17	1.32	5.78	0.34	<0.02	0.1	0.27	0.88	0.17	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW709_221123	Normal	EM2223510	3.90	0.27	9.37	1.22	1.19	5.47	0.30	<0.02	0.1	0.25	1.13	0.16	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW709_231115	Normal	EM2320952	4.59	0.33	10.9	1.38	1.38	6.34	0.33	<0.02	0.2	0.26	1.25	0.19	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW711	19 Oct 2016	MW711	Normal	EM1612530	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	29 Nov 2019	0937_MW711_191129	Normal	EM1920529	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW711_20200318	Normal	EM2004711	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW711_200617	Normal	EM2010514	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW711_201111	Normal	EM2020050	<0.01	<0.01	0.04	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Jan 2021	0937_MW711_210129	Normal	EM2101229	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_ MW711_20210428	Normal	EM2107858	1.17	0.02	1.54	0.07	<0.04	0.37	<0.04	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW711_210804	Normal	EM2115476	0.05	<0.01	0.15	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW711_211116	Normal	EM2123080	0.04	<0.01	0.13	<0.02	0.03	0.09	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Feb 2022	0937_MW711_220218	Normal	EM2202703	0.08	<0.01	0.21	0.07	0.03	0.13	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 May 2022	0937_MW711_220525	Normal	EM2210316	0.03	<0.01	0.13	0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Aug 2022	0937_MW711_220824	Normal	EM2216476	0.04	<0.01	0.12	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW711_221129	Normal	EM2223972	0.04	<0.01	0.18	0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW711_231120	Normal	EM2320952	0.04	<0.01	0.21	0.04	0.02	0.17	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW712	29 Nov 2019	0937_MW712_191129	Normal	EM1920529	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW712_201111	Normal	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW712_210201	Normal	EM2101575	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	0937_ MW712 _20210421	Normal	EM2107085	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW712_210715	Normal	EM2113872-AB	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW712_211116	Normal	EM2123080	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW712_220217	Normal	EM2202703	0.04	<0.01	0.05	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_MW712_220530	Normal	EM2210316	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW712_220825	Normal	EM2216476	0.03	<0.01	0.03	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW712_221129	Normal	EM2223972	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW712_231115	Normal	EM2320952	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW714	20 Oct 2016	MW714	Normal	EM1612530	0.83	<0.01	0.93	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2019	0937_MW714_191129	Normal	EM1920529	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW714_20200318	Normal	EM2004711	0.10	<0.01	0.12	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW714_200617	Normal	EM2010514	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC103_200617	Field_D	EM2010514	0.10	<0.01	0.12	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC203_200617	Interlab_D	726765	0.05	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	09 Nov 2020	0937_MW714_201109	Normal	EM2020050	0.04	<0.01	0.04	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	27 Jan 2021	0937_MW714_200127	Normal	EM2101229	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW714 _20210420	Normal	EM2107085	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW714_210715	Normal	EM2113872-AB	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW714_211116	Normal	EM2123080	0.05	<0.01	0.05	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Feb 2022	0937_MW714_220218	Normal	EM2202703	0.09	<0.01	0.12	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_MW714_220530	Normal	EM2210316	0.08	<0.01	0.10	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_MW714_220829	Normal	EM2217000	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW714_221129	Normal	EM2223972	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW714_231115	Normal	EM2320952	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW715	20 Oct 2016	MW715	Normal	EM1612530	0.62	<0.05	0.72	<0.05	<0.05	0.1	<0.05	<0.05	<0.1	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
	29 Nov 2019	0937_MW715_191128	Normal	EM1920529	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW715_20200319	Normal	EM2004711	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW715_200616	Normal	EM2010514	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW715_201111	Normal	EM2020050	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC109_201111	Field_D	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC209_201111	Interlab_D	757178	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	01 Feb 2021	0937_MW715_210201	Normal	EM2101575	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Apr 2021	0937_ MW715 _20210419	Normal	EM2107085	0.08	<0.01	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW715_210802	Normal	EM2115476	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Nov 2021	0937_MW715_211122	Normal	EM2123477	0.07	<0.01	0.11	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW715_220215	Normal	EM2202703	0.11	<0.01	0.16	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC100_220215	Field_D	EM2202703	0.16	<0.01	0.23	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC200_220215	Interlab_D	864735	0.12	<0.01	0.19	<0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
	30 May 2022	0937_MW715_220530	Normal	EM2210316	0.05	<0.01	0.09	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	26 Aug 2022	0937_MW715_220826	Normal	EM2216476	0.03	<0.01	0.04	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW715_221128	Normal	EM2223972	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW715_231120	Normal	EM2320952	0.13	<0.01	0.17	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW716	20 Oct 2016	MW716	Normal	EM1612530	9.44	0.11	10.66	0.14	0.13	1.22	0.28	<0.02	<0.1	0.04	0.16	0.05	<0.02	<0.02	<0.02
	29 Nov 2019	0937_MW716_191129	Normal	EM1920529	0.09	<0.01	0.13	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_MW716_20200316	Normal	EM2004711	0.11	<0.01	0.15	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW716_20200616	Normal	EM2010514	0.10	<0.01	0.15	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW716_201111	Normal	EM2020050	0.09	<0.01	0.12	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	27 Jan 2021	0937_MW716_210127	Normal	EM2101229	0.07	<0.01	0.10	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Apr 2021	0937_ MW716 _20210419	Normal	EM2107085	0.06	<0.01	0.08	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Aug 2021	0937_MW716_210802	Normal	EM2115476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW716_211117	Normal	EM2123080	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW716_220215	Normal	EM2202703	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_MW716_220530	Normal	EM2210316	0.22	<0.01	0.34	<0.02	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	26 Aug 2022	0937_MW716_220826	Normal	EM2216476	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW716_221128	Normal	EM2223972	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2023	0937_MW716_231120	Normal	EM2320952	0.09	<0.01	0.11	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW719	20 Oct 2016	MW719	Normal	EM1612530	4,910	280	8,530	1,240	558	3,620	144	<0.02	120	122	928	85.2	0.07	<0.02	<0.02
	25 Nov 2019	0937_MW719_191125	Normal	EM1920529	6,740	285	10,400	608	631	3,630	467	3.70	59.4	220	968	155	2.05	<0.50	<0.50
	17 Mar 2020	0937_MW719_20200317	Normal	EM2004711	8,680	322	12,700	639	692	4,060	374	<5.00	55.0	220	1,040	174	<5.00	<5.00	<5.00
	16 Jun 2020	0937_MW719_200616	Normal	EM2010514	5,820	297	9,220	491	607	3,400	464	14.6	132	188	924	143	2.05	0.23	<0.02
	10 Nov 2020	0937_MW719_201110	Normal	EM2020050	4,120	375	8,220	601	626	4,100	274	4.39	54.0	186	894	172	1.49	0.09	<0.04
	28 Jan 2021	0937_MW719_210128	Normal	EM2101229	3,860	370	7,520	536	500	3,660	252	5.27	56.3	192	868	177	1.16	0.10	<0.04
	22 Apr 2021	0937_ MW719 _20210422	Normal	EM2107085	3,760	194	6,600	350	454	2,840	235	0.82	19.7	116	641	93.1	0.87	<0.38	<0.38
	13 Jul 2021	0937_MW719_210713	Normal	EM2113872-AB	2,530	186	4,560	250	228	2,030	109	5.76	20.4	99.8	439	85.5	1.08	0.11	<0.04
	15 Nov 2021	0937_MW719_211115	Normal	EM2123080	3,070	480	7,380	471	506	4,310	241	4.43	21.3	190	731	171	1.42	0.06	<0.04
	22 Feb 2022	0937_MW719_220222	Normal	EM2203247	3,470	350	7,970	576	775	4,500	254	2.68	23.6	198	910	186	1.42	<0.35	<0.35
		0937_QC222_220222	Interlab_D	866689	4,800	450	10,400	760	940	5,600	390	1.9	150	190	770	180	1.6	0.23	0.01
	26 May 2022	0937_MW719_220526	Normal	EM2210316	1,260	72.7	2,110	126	132	854	62.4	0.48	36.1	53.9	229	39.8	2.26	0.19	<0.02
	26 Aug 2022	0937_MW719_220826	Normal	EM2216476	2,600	105	3,580	117	195	980	77.4	<0.34	9.5	48.8	220	40.9	1.40	<0.34	<0.34
	24 Nov 2022	0937_MW719_221124	Normal	EM2223510	3,000	168	5,050	261	325	2,050	191	1.72	16.4	91.0	419	73.2	1.06	<0.34	<0.34
	17 Nov 2023	0937_MW719_231117	Normal	EM2320952	3,070	366	6,150	373	406	3,080	272	1.93	31.6	176	516	148	2.40	<0.36	<0.36

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW720	20 Oct 2016	MW720	Normal	EM1612530	1,130	60	2,380	184	111	1,250	56.2	<0.02	32	78.2	200	4.21	0.04	<0.02	<0.02
	25 Nov 2019	0937_MW720_191125	Normal	EM1920529	314	15.7	723	30.1	40.6	409	31.5	0.06	4.5	12.8	76.4	8.28	0.06	<0.05	<0.05
	20 Mar 2020	0937_MW720_20200317	Normal	EM2004711	318	21.1	711	29.4	43.6	393	25.0	<0.05	4.3	13.4	73.8	10.3	0.10	<0.05	<0.05
	16 Jun 2020	0937_MW720_200616	Normal	EM2010514	292	20.8	678	25.4	47.6	386	37.0	<0.02	7.4	12.5	78.5	8.76	0.09	<0.02	<0.02
	10 Nov 2020	0937_MW720_201110	Normal	EM2020050	273	15.3	607	22.8	35.8	334	19.6	<0.04	3.7	10.0	57.4	7.69	0.04	<0.04	<0.04
	28 Jan 2021	0937_MW720_210128	Normal	EM2101229	315	18.0	644	25.2	29.5	329	30.4	<0.04	3.5	11.5	60.2	8.42	0.08	<0.04	<0.04
	22 Apr 2021	0937_ MW720 _20210422	Normal	EM2107085	289	17.0	589	23.8	34.5	300	30.1	<0.04	2.2	10.2	56.3	8.18	0.05	<0.04	<0.04
	13 Jul 2021	0937_MW720_210713	Normal	EM2113872-AB	2,700	145	6,300	254	283	3,600	127	0.50	19.3	174	942	87.0	0.44	0.04	<0.03
	16 Nov 2021	0937_MW720_211116	Normal	EM2123080	1,360	55.9	2,550	78.5	107	1,190	57.7	0.15	8.0	44.0	209	25.0	0.21	<0.04	<0.04
	17 Feb 2022	0937_MW720_220217	Normal	EM2202703	3,990	166	7,330	228	329	3,340	314	0.72	50.6	145	812	72.2	1.17	0.12	<0.02
	26 May 2022	0937_MW720_220526	Normal	EM2210316	637	49.0	1,650	76.6	111	1,010	50.0	0.12	16.9	42.3	212	24.1	0.22	<0.02	<0.02
	25 Aug 2022	0937_MW720_220825	Normal	EM2216476	409	34.7	1,110	48.3	110	704	43.9	<0.03	4.8	25.4	140	17.8	0.04	<0.03	<0.03
	24 Nov 2022	0937_MW720_221124	Normal	EM2223510	332	34.0	951	55.3	93.9	619	28.3	0.04	4.9	23.2	132	17.2	0.12	<0.03	<0.03
	17 Nov 2023	0937_MW720_231117	Normal	EM2320952	456	43.4	1,370	73.0	124	910	42.1	0.06	10.3	29.5	166	25.1	0.25	<0.04	<0.04
MW724	18 Oct 2016	MW724	Normal	EM1612450	1.25	0.06	3.61	0.56	0.2	2.36	0.07	<0.02	<0.1	0.06	0.25	0.03	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW724_191120	Normal	EM1920039	0.20	0.01	1.08	0.58	0.35	0.88	<0.02	<0.02	<0.1	0.09	0.76	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW724_200616	Normal	EM2010514	0.32	0.01	1.27	0.54	0.41	0.95	<0.02	<0.02	<0.1	0.08	0.86	<0.02	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW724_210128	Normal	EM2101229	0.40	0.01	1.50	0.71	0.44	1.10	<0.02	<0.02	<0.1	0.10	0.93	<0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW724_210713	Normal	EM2113872-AB	0.30	0.01	1.94	1.27	0.70	1.64	<0.02	<0.02	0.1	0.21	1.61	0.02	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW724_220215	Normal	EM2202703	0.78	0.11	6.24	3.71	2.12	5.46	0.07	<0.02	0.4	0.73	4.48	0.11	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW724_220823	Normal	EM2216476	0.39	0.04	3.22	2.24	1.21	2.83	<0.02	<0.02	0.2	0.43	2.48	0.06	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW724_231116	Normal	EM2320952	0.30	0.03	3.46	2.39	1.85	3.16	0.02	<0.02	0.1	0.43	2.78	0.06	<0.02	<0.02	<0.02
MW725	17 Oct 2016	MW725	Normal	EM1612450	65.2	1.39	101.9	5.03	3.18	36.7	1.75	<0.02	<0.1	0.7	2.7	0.68	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW725_191120	Normal	EM1920039	7.59	0.73	19.4	1.53	2.04	11.8	0.69	<0.02	0.2	0.52	2.76	0.36	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW725_20200317	Normal	EM2004711	10.3	0.70	25.3	2.54	2.76	15.0	0.78	<0.05	1.1	1.20	3.22	0.40	<0.05	<0.05	<0.05
	16 Jun 2020	0937_MW725_20200616	Normal	EM2010514	8.84	0.94	24.3	2.03	2.89	15.5	0.94	<0.02	0.5	0.74	3.77	0.50	<0.02	<0.02	<0.02
	10 Nov 2020	0937_MW725_201110	Normal	EM2020050	6.86	0.68	20.4	1.75	2.02	13.5	0.60	<0.04	<0.2	0.52	2.56	0.37	<0.04	<0.04	<0.04
		0937_QC101_201110	Field_D	EM2020050	6.54	0.70	18.0	1.66	1.81	11.5	0.70	<0.02	0.6	0.58	2.75	0.40	<0.02	<0.02	<0.02
		0937_QC201_201110	Interlab_D	757178	10	1.0	28	1.6	2.2	18	0.95	<0.01	0.49	0.74	3.6	0.52	<0.01	<0.01	<0.01
	28 Jan 2021	0937_MW725_210128	Normal	EM2101229	5.99	0.66	16.2	1.46	2.02	10.2	0.65	<0.02	0.4	0.52	2.73	0.44	<0.02	<0.02	<0.02
		0937_QC100_210128	Field_D	EM2101229	6.24	0.69	18.1	1.44	2.07	11.9	0.67	<0.02	0.4	0.54	2.71	0.41	<0.02	<0.02	<0.02
		0937_QC200_210128	Interlab_D	770470	10	1.0	30	2.7	2.7	20	0.87	<0.01	0.43	1.2	3.9	0.50	<0.01	<0.01	<0.01
	22 Apr 2021	0937_ MW725 _20210422	Normal	EM2107085	6.21	0.71	17.3	1.92	2.58	11.1	0.75	<0.02	0.4	0.58	3.05	0.46	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW725_210713	Normal	EM2113872-AB	6.57	0.72	19.5	1.39	1.23	12.9	0.75	<0.02	0.5	0.60	2.86	0.39	<0.02	<0.02	<0.02
	12 Nov 2021	0937_MW725_211112	Normal	EM2123080	6.22	0.70	19.9	1.43	3.04	13.7	1.08	<0.02	0.6	0.81	2.58	0.36	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW725_220215	Normal	EM2202703	7.35	0.94	22.4	2.5	3.47	15.1	0.82	<0.02	0.6	0.96	4.2	0.54	<0.02	<0.02	<0.02
		0937_QC107_220215	Field_D	EM2202703	8.5	0.91	28.3	2.65	3.45	19.8	0.89	<0.02	0.6	0.83	5.08	0.59	<0.02	<0.02	<0.02
		0937_QC207_220215	Interlab_D	864735	8.5	1	25.5	2.5	2.4	17	0.59	<0.01	0.68	0.94	3.3	0.56	<0.01	<0.01	<0.01
	26 May 2022	0937_MW725_2205246	Normal	EM2210316	7.41	0.82	21.1	1.87	2.51	13.7	0.84	<0.02	0.5	1.11	3.50	0.49	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW725_220823	Normal	EM2216476	5.94	0.65	16.6	1.36	1.98	10.7	0.81	<0.02	0.2	0.52	2.20	0.36	<0.02	<0.02	<0.02
	22 Nov 2022	0937_MW725_221122	Normal	EM2223510	5.95	0.63	16.6	1.36	1.76	10.7	0.67	<0.02	0.2	0.46	2.02	0.37	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW725_231115	Normal	EM2320952	4.91	0.38	12.0	0.85	1.11	7.13	0.45	<0.02	0.1	0.28	1.27	0.20	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW726	18 Oct 2016	MW726	Normal	EM1612450	0.93	1.76	69.83	39.1	17.8	68.9	1.81	<0.02	<0.1	2.46	8.16	1.68	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW726_191120	Normal	EM1920039	2.64	4.04	77.9	30.0	23.5	75.3	3.17	<0.02	2.6	5.87	24.4	3.16	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW726_20200317	Normal	EM2004711	4.38	5.06	108	44.0	36.8	104	5.19	<0.05	3.6	7.18	33.0	4.03	<0.05	<0.05	<0.05
	16 Jun 2020	0937_MW726_20200616	Normal	EM2010514	5.48	4.13	90.7	25.0	30.4	85.2	5.64	<0.02	5.1	4.84	24.2	3.16	<0.02	<0.02	<0.02
	10 Nov 2020	0937_MW726_201110	Normal	EM2020050	2.77	1.96	51.3	18.0	14.3	48.5	2.09	<0.04	1.1	2.59	12.1	1.54	<0.04	<0.04	<0.04
	28 Jan 2021	0937_MW726_210128	Normal	EM2101229	7.50	3.56	78.2	33.3	29.0	70.7	4.46	<0.02	6.3	5.77	24.7	3.58	<0.02	<0.02	<0.02
	26 Apr 2021	0937_ MW726 _20210426	Normal	EM2107858	4.60	2.34	55.7	18.4	14.4	51.1	2.65	<0.04	3.2	3.27	13.9	1.85	<0.04	<0.04	<0.04
	13 Jul 2021	0937_MW726_210713	Normal	EM2113872-AB	6.01	2.65	48.7	17.5	12.6	42.7	2.64	<0.04	1.8	3.14	14.0	2.05	<0.04	<0.04	<0.04
		0937_QC102_210713	Field_D	EM2113872-AB	5.57	2.58	57.2	18.6	13.5	51.6	2.69	<0.04	1.6	3.49	15.6	1.90	<0.04	<0.04	<0.04
		0937_QC202_210713	Interlab_D	811260	11	5.1	88	28	24	77	5.2	<0.01	6.1	6.7	20	3.4	0.01	<0.01	<0.01
	15 Nov 2021	0937_MW726_211115	Normal	EM2123080	12.9	4.20	94.7	28.7	23.6	81.8	4.27	<0.04	1.8	5.44	22.0	2.99	<0.04	<0.04	<0.04
	15 Feb 2022	0937_MW726_220215	Normal	EM2202703	93.6	12.2	231	34.4	37.4	137	18.5	<0.02	4	8.35	37.5	4.25	0.04	<0.02	<0.02
	25 May 2022	0937_MW726_220525	Normal	EM2210316	75.8	10.3	225	26.0	26.1	149	16.2	<0.02	5.4	8.25	30.5	5.03	0.04	<0.02	<0.02
		0937_QC104_220525	Field_D	EM2210316	72.4	8.99	222	23.8	27.6	150	15.4	<0.02	3.5	7.75	28.1	3.51	0.03	<0.02	<0.02
		0937_QC204_220525	Interlab_D	893740	94	11	109	27	29	15	20	<0.01	5.1	6.1	31	3.9	0.01	<0.01	<0.01
	23 Aug 2022	0937_MW726_220823	Normal	EM2216476	42.8	7.48	157	25.0	26.4	114	15.5	<0.04	2.0	5.20	26.8	3.37	<0.04	<0.04	<0.04
	24 Nov 2022	0937_MW726_221124	Normal	EM2223510	28.0	5.38	138	29.6	28.0	110	7.17	<0.03	1.8	4.86	22.2	3.01	<0.03	<0.03	<0.03
	16 Nov 2023	0937_MW726_231116	Normal	EM2320952	27.6	5.79	117	29.4	28.6	89.1	9.23	<0.04	2.5	5.68	25.4	3.41	<0.04	<0.04	<0.04
MW728	17 Oct 2016	MW728	Normal	EM1612450	1.05	0.06	3.05	0.18	0.1	2	0.08	<0.02	<0.1	<0.02	0.1	0.03	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW728_191120	Normal	EM1920039	0.87	0.05	1.51	0.06	0.08	0.64	0.05	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW728_20200616	Normal	EM2010514	1.03	0.05	1.83	0.09	0.12	0.80	0.06	<0.02	<0.1	0.03	0.16	0.02	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW728_210128	Normal	EM2101229	0.87	0.04	1.55	0.09	0.09	0.68	0.06	<0.02	<0.1	0.03	0.14	0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW728_210713	Normal	EM2113872-AB	0.74	0.04	1.37	0.08	0.07	0.63	0.05	<0.02	<0.1	0.03	0.16	<0.02	<0.02	<0.02	<0.02
		0937_QC104_210713	Field_D	EM2113872-AB	0.80	0.04	1.41	0.09	0.09	0.61	0.06	<0.02	<0.1	0.02	0.16	0.02	<0.02	<0.02	<0.02
		0937_QC204_210713	Interlab_D	811260	1.0	0.04	1.8	0.09	0.14	0.80	0.07	<0.01	0.06	0.05	0.17	0.02	<0.01	<0.01	<0.01
	15 Feb 2022	0937_MW728_220215	Normal	EM2202703	0.75	0.07	1.86	0.2	0.19	1.11	0.06	<0.02	<0.1	0.07	0.4	0.04	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW728_220823	Normal	EM2216476	0.59	0.04	1.47	0.15	0.16	0.88	0.05	<0.02	<0.1	0.06	0.24	0.03	<0.02	<0.02	<0.02
		0937_QC100_220823	Field_D	EM2216476	0.58	0.04	1.39	0.17	0.15	0.81	0.04	<0.02	<0.1	0.07	0.23	0.03	<0.02	<0.02	<0.02
		0937_QC200_220823	Interlab_D	922647	0.69	0.05	1.79	0.17	0.18	1.1	0.05	<0.01	<0.05	0.05	0.27	0.04	<0.01	<0.01	<0.01
	15 Nov 2023	0937_MW728_231115	Normal	EM2320952	0.66	0.07	2.16	0.25	0.29	1.50	0.07	<0.02	<0.1	0.10	0.42	0.06	<0.02	<0.02	<0.02
MW729	18 Oct 2016	MW729	Normal	EM1612450	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Nov 2019	0937_MW729_191125	Normal	EM1920529	0.10	<0.01	0.19	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW729_20200217	Normal	EM2004711	0.35	<0.01	0.51	0.03	0.04	0.16	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
		0937_QC100_20200317	Field_D	EM2004711	0.17	<0.01	0.28	0.02	0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC200_20200317	Interlab_D	711148	0.13	<0.01	0.23	0.02	0.01	0.10	<0.01	<0.01	<0.05	0.01	0.01	<0.01	<0.01	<0.01	<0.01
	16 Jun 2020	0937_MW729_20200616	Normal	EM2010514	0.18	<0.01	0.29	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0937_MW729_201110	Normal	EM2020050	3.25	0.06	5.19	0.40	0.21	1.94	0.14	<0.02	0.3	0.16	0.31	0.02	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW729_210128	Normal	EM2101229	0.31	<0.01	0.53	0.04	0.02	0.22	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_MW729_20210428	Normal	EM2107858	3.51	0.05	4.94	0.19	0.10	1.43	0.15	<0.02	0.2	0.09	0.19	<0.02	<0.02	<0.02	<0.02
	14 Jul 2021	0937_MW729_210714	Normal	EM2113872-AB	2.76	0.05	4.38	0.22	0.16	1.62	0.12	<0.02	<0.1	0.06	0.17	0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW729_211116	Normal	EM2123080	6.25	0.12	9.48	0.33	0.35	3.23	0.21	0.03	0.1	0.16	0.35	0.04	<0.02	<0.02	<0.02
	24 Feb 2022	0937_MW729_220224	Normal	EM2203247	6.49	0.12	9.71	0.34	0.24	3.22	0.17	0.03	<0.1	0.1	0.37	0.03	<0.02	<0.02	<0.02
	26 May 2022	0937_MW729_220526	Normal	EM2210316	10.1	0.16	15.2	0.53	0.52	5.06	0.41	0.05	0.1	0.26	0.65	0.08	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW729_220825	Normal	EM2216476	4.04	0.05	5.35	0.12	0.11	1.31	0.09	<0.02	<0.1	0.05	0.14	<0.02	<0.02	<0.02	<0.02
	24 Nov 2022	0937_MW729_221124	Normal	EM2223510	8.30	0.17	13.5	0.52	0.49	5.19	0.31	0.02	<0.1	0.14	0.50	0.07	<0.02	<0.02	<0.02
	17 Nov 2023	0937_MW729_231117	Normal	EM2320952	9.82	0.12	13.8	0.39	0.33	4.00	0.37	0.02	<0.1	0.12	0.37	0.05	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW730	19 Oct 2016	MW730	Normal	EM1612530	<0.01	<0.01	3.08	0.96	0.6	3.08	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW730_191120	Normal	EM1920039	0.08	<0.01	2.31	0.37	0.39	2.23	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_MW730_200618	Normal	EM2010514	0.53	0.03	2.60	0.26	0.34	2.07	0.04	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_MW730_201111	Normal	EM2020050	0.12	<0.01	1.83	0.33	0.32	1.71	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	29 Jan 2021	0937_MW730_210129	Normal	EM2101229	0.15	<0.01	2.17	0.38	0.25	2.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	27 Apr 2021	0937_ MW730 _20210426	Normal	EM2107858	0.23	<0.01	2.16	0.42	0.31	1.93	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW730_210715	Normal	EM2113872-AB	0.34	0.01	1.64	0.35	0.22	1.30	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW730_211116	Normal	EM2123080	0.37	<0.01	1.63	0.19	0.26	1.26	0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW730_220217	Normal	EM2202703	0.32	0.01	1.84	0.39	0.32	1.52	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	26 May 2022	0937_MW730_220526	Normal	EM2210316	0.24	<0.01	1.95	0.42	0.37	1.71	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW730_220825	Normal	EM2216476	0.20	<0.01	0.37	0.03	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Nov 2022	0937_MW730_221124	Normal	EM2223510	0.15	<0.01	1.40	0.32	0.25	1.25	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2023	0937_MW730_231117	Normal	EM2320952	0.31	<0.01	1.67	0.47	0.34	1.36	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW733	18 Oct 2016	MW733	Normal	EM1612450	0.52	<0.01	2.31	0.74	0.26	1.79	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW733_191120	Normal	EM1920034	0.08	<0.01	0.97	0.28	0.22	0.89	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW733_20200317	Normal	EM2004711	0.07	<0.01	1.42	0.55	0.50	1.35	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW733_200616	Normal	EM2010514	0.08	0.01	1.44	0.56	0.37	1.36	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0936_QC100_201110	Field_D	EM2020050	0.06	<0.01	1.12	0.39	0.25	1.06	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
		0937_MW733_201110	Normal	EM2020050	0.06	<0.01	1.15	0.40	0.27	1.09	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02
		0937_QC200_01110	Interlab_D	757178	0.09	0.02	1.29	0.42	0.29	1.2	<0.01	<0.01	0.09	0.03	0.11	0.01	<0.01	<0.01	<0.01
	28 Jan 2021	0937_MW733_210128	Normal	EM2101229	0.06	0.01	1.16	0.35	0.21	1.10	<0.02	<0.02	<0.1	0.02	0.12	<0.02	<0.02	<0.02	<0.02
		0937_QC102_210128	Field_D	EM2101229	0.08	0.01	1.26	0.37	0.25	1.18	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02
		0937_QC202_210128	Interlab_D	770470	0.08	0.02	1.38	0.40	0.29	1.3	0.01	<0.01	0.06	0.04	0.12	0.01	<0.01	<0.01	<0.01
	26 Apr 2021	0937_ MW733 _20210426	Normal	EM2107858	0.35	0.02	1.70	0.60	0.28	1.35	<0.04	<0.02	0.1	0.03	0.16	<0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_QC206_210713	Interlab_D	811260	0.23	0.02	1.73	0.63	0.55	1.5	0.02	<0.01	0.14	0.06	0.19	0.01	<0.01	<0.01	<0.01
	14 Jul 2021	0947_QC106_210714	Field_D	EM2113872-AB	0.20	0.01	1.50	0.50	0.25	1.30	0.02	<0.02	0.1	0.04	0.15	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW733_210715	Normal	EM2113872-AB	0.21	0.01	1.39	0.59	0.28	1.18	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02
	12 Nov 2021	0937_MW733_211112	Normal	EM2123080	0.27	0.02	1.80	0.48	0.39	1.53	0.03	<0.02	0.1	0.08	0.19	<0.02	<0.02	<0.02	<0.02
	15 Feb 2022	0937_MW733_220215	Normal	EM2202703	0.35	0.02	1.95	0.72	0.39	1.6	0.03	<0.02	0.1	0.08	0.28	0.02	<0.02	<0.02	<0.02
		0937_QC104_220215	Field_D	EM2202703	0.29	0.03	1.87	0.65	0.36	1.58	0.02	<0.02	0.1	0.07	0.29	<0.02	<0.02	<0.02	<0.02
		0937_QC204_220215	Interlab_D	864735	0.39	0.03	2.19	0.57	0.39	1.8	0.02	<0.01	0.19	0.08	0.19	0.02	<0.01	<0.01	<0.01
	25 May 2022	0937_MW733_220525	Normal	EM2210316	4.02	0.02	5.75	0.57	0.38	1.73	0.05	<0.02	<0.1	0.07	0.20	<0.02	<0.02	<0.02	<0.02
	23 Aug 2022	0937_MW733_220823	Normal	EM2216476	0.79	<0.01	1.08	0.09	0.04	0.29	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	22 Nov 2022	0937_QC202_221122	Interlab_D	945182	0.60	0.02	1.9	0.62	0.33	1.3	0.03	<0.01	0.20	0.06	0.19	0.02	<0.01	<0.01	<0.01
	23 Nov 2022	0937_MW733_221122	Normal	EM2223510	0.44	0.02	1.72	0.60	0.34	1.28	0.02	<0.02	0.1	0.07	0.18	<0.02	<0.02	<0.02	<0.02
	23 Nov 2023	0937_MW733_231123	Normal	EM2320952	0.15	0.02	1.75	0.68	0.50	1.60	<0.02	<0.02	<0.1	0.04	0.16	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW734	18 Oct 2016	MW734	Normal	EM1612450	150	2.5	253	14.9	6.55	103	4.42	<0.02	<0.1	1.5	5.52	0.78	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW734_191120	Normal	EM1920039	84.1	4.07	170	7.82	8.13	85.4	7.13	<0.02	1.1	2.81	13.7	1.07	0.02	<0.02	<0.02
	17 Mar 2020	0937_MW734_20200317	Normal	EM2004711	149	2.26	204	4.40	6.36	55.5	6.37	<0.05	1.0	1.82	9.24	0.76	<0.05	<0.05	<0.05
	16 Jun 2020	0937_MW734_200616	Normal	EM2010514	126	2.55	183	4.25	5.84	56.8	7.62	<0.02	1.2	1.67	8.51	0.66	0.03	<0.02	<0.02
	10 Nov 2020	0937_MW734_201110	Normal	EM2020050	142	1.44	180	2.72	3.16	38.0	5.61	<0.04	1.0	1.31	5.48	0.40	<0.04	<0.04	<0.04
	28 Jan 2021	0937_MW734_210128	Normal	EM2101229	97.8	0.94	121	1.65	1.73	23.3	4.21	<0.04	0.4	0.85	3.39	0.27	<0.04	<0.04	<0.04
		0937_QC104_210128	Field_D	EM2101229	108	1.06	131	1.66	2.73	23.4	4.19	<0.02	0.9	0.97	4.06	0.33	<0.02	<0.02	<0.02
		0937_QC204_210128	Interlab_D	770470	170	1.5	203	2.7	2.3	33	9.2	0.01	0.97	2.1	5.3	0.37	0.03	<0.01	<0.01
	26 Apr 2021	0937_ MW734 _2021042	Normal	EM2107858	80.1	0.57	92.1	1.02	1.29	12.0	2.41	<0.02	0.5	0.54	2.45	0.19	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW734_210713	Normal	EM2113872-AB	123	0.74	140	1.05	1.53	16.9	2.70	0.12	1.0	0.88	2.53	0.23	<0.02	<0.02	<0.02
		0937_QC103_210713	Field_D	EM2113872-AB	111	0.76	130	1.12	1.12	18.6	2.71	0.04	0.8	0.93	2.69	0.20	<0.04	<0.04	<0.04
		0937_QC203_210713	Interlab_D	811260	190	1.0	215	1.3	1.9	25	3.4	<0.5	1.4	1.1	2.9	0.19	<0.01	<0.01	<0.01
	15 Nov 2021	0937_MW734_211115	Normal	EM2123080	239	0.99	265	1.47	1.80	26.4	4.42	<0.04	0.8	1.21	3.37	0.25	<0.04	<0.04	<0.04
		0937_QC107_211115	Field_D	EM2123080	265	1.06	292	1.45	2.41	26.5	3.57	0.07	0.8	1.28	3.77	0.29	<0.04	<0.04	<0.04
		0937_QC207_211115	Interlab_D	842318	300	0.87	327	1.5	1.7	27	2.5	<1	1.2	1.1	3.6	0.33	0.03	0.09	<0.01
	15 Feb 2022	0937_MW734_220215	Normal	EM2202703	366	1.5	401	2.47	2.75	35.3	5.96	0.27	1.8	2.22	6.49	0.45	0.03	<0.02	<0.02
	25 May 2022	0937_MW734_220524	Normal	EM2210316	452	1.72	494	2.83	3.52	42.2	8.72	0.13	2.1	3.60	7.58	0.55	0.05	<0.02	<0.02
	23 Aug 2022	0937_MW734_220823	Normal	EM2216476	225	0.77	245	1.23	1.49	20.2	1.92	0.07	0.7	1.10	3.16	0.26	<0.04	<0.04	<0.04
		0937_QC101_220823	Field_D	EM2216476	220	0.67	241	1.07	1.61	20.6	1.96	<0.04	1.1	1.16	3.13	0.23	<0.04	<0.04	<0.04
		0937_QC201_220823	Interlab_D	922647	200	0.63	220	1.1	1.3	20	1.5	<0.01	1.3	1.1	3.1	0.21	0.02	<0.01	<0.01
	22 Nov 2022	0937_MW734_221122	Normal	EM2223510	210	0.49	227	0.82	1.20	17.2	2.07	0.05	0.5	0.77	2.07	0.16	<0.03	<0.03	<0.03
	25 Nov 2022	0937_QC200_221125	Interlab_D	945182	320	0.61	337	0.87	1.2	17	1.2	<0.01	1.3	1.1	2.4	0.20	<0.01	<0.01	<0.01
	16 Nov 2023	0937_MW734_231116	Normal	EM2320952	161	0.48	177	0.95	1.32	15.9	1.32	0.09	0.4	0.60	2.10	0.16	<0.02	<0.02	<0.02
		0937_QC110_231116	Field_D	EM2320952	169	0.55	185	1.18	1.12	16.2	1.17	0.08	0.4	0.65	1.99	0.19	<0.03	<0.03	<0.03
		0937_QC210_231116	Interlab_D	1048259	200	0.58	215	0.87	1.0	15	<1	<1	0.79	0.64	2.0	0.15	0.02	<0.01	<0.01
MW735	18 Oct 2016	MW735	Normal	EM1612450	<0.01	<0.01	0.2	0.05	<0.02	0.2	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW735_20200617	Normal	EM2010514	0.43	0.01	0.66	0.03	0.04	0.23	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW735_201111	Normal	EM2020050	0.12	<0.01	0.15	0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW735_210201	Normal	EM2101575	0.06	<0.01	0.10	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW735 _20210420	Normal	EM2107085	0.06	<0.01	0.08	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW735_210804	Normal	EM2115476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW735_211116	Normal	EM2123080	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Feb 2022	0937_MW735_220216	Normal	EM2202703	0.17	<0.01	0.28	0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	26 May 2022	0937_MW735_220526	Normal	EM2210316	0.02	<0.01	0.05	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW735_220825	Normal	EM2216476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW735_221123	Normal	EM2223510	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC208_221123	Interlab_D	945182	0.03	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	15 Nov 2023	0937_MW735_231115	Normal	EM2320952	0.12	<0.01	0.14	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW737	19 Oct 2016	MW737	Normal	EM1612530	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Nov 2019	0937_MW737_191120	Normal	EM1920039	0.31	<0.01	0.37	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_MW737_200616	Normal	EM2010514	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW737_210128	Normal	EM2101229	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_MW737_210713	Normal	EM2113872-AB	0.10	<0.01	0.12	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	15 Nov 2021	0937_MW737_211115	Normal	EM2123080	0.49	<0.01	0.58	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
		0937_QC108_211115	Field_D	EM2123080	0.22	<0.01	0.27	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC208_211115	Interlab_D	842318	0.40	<0.01	0.46	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01
	17 Feb 2022	0937_MW737_220217	Normal	EM2202703	0.7	<0.01	0.78	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	25 May 2022	0937_MW737_220525	Normal	EM2210316	0.89	<0.01	1.07	0.09	<0.02	0.18	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02
		0937_QC101_220525	Field_D	EM2210316	0.98	0.01	1.20	<0.02	0.02	0.22	<0.02	<0.02	<0.1	0.02	0.08	<0.02	<0.02	<0.02	<0.02
		0937_QC201_220525	Interlab_D	893740	0.80	<0.01	0.94	0.01	0.01	0.14	0.01	<0.01	<0.05	0.02	0.05	<0.01	<0.01	<0.01	<0.01
	23 Aug 2022	0937_MW737_220823	Normal	EM2216476	0.96	<0.01	1.13	0.02	<0.02	0.17	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW737_221122	Normal	EM2223510	0.20	<0.01	0.26	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2023	0937_MW737_231116	Normal	EM2320952	1.41	<0.01	1.48	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
MW738	18 Oct 2016	MW738	Normal	EM1612450	142	<0.01	636	8.73	7.73	73.7	3.16	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
					534	3.51		18	8.55	102	6.78			1.95	6.94	1.41			
	25 Nov 2019	0937_MW738_191125	Normal	EM1920529	56.9	0.66	78.4	2.02	1.73	21.5	1.66	<0.02	0.3	0.50	2.52	0.30	<0.02	<0.02	<0.02
	17 Mar 2020	0937_MW738_20200317	Normal	EM2004711	56.8	0.84	75.5	2.36	2.66	18.7	1.68	<0.05	0.3	0.60	2.42	0.38	<0.05	<0.05	<0.05
	16 Jun 2020	0937_MW738_20200616	Normal	EM2010514	44.7	0.81	65.1	2.15	3.17	20.4	1.62	<0.02	0.4	0.57	2.60	0.38	<0.02	<0.02	<0.02
	10 Nov 2020	0937_MW738_201110	Normal	EM2020050	27.7	0.52	39.6	1.52	1.53	11.9	0.90	<0.02	0.2	0.34	1.57	0.22	<0.02	<0.02	<0.02
	28 Jan 2021	0937_MW738_210128	Normal	EM2101229	37.8	0.46	49.0	1.14	1.12	11.2	0.96	<0.04	<0.2	0.31	1.42	0.21	<0.04	<0.04	<0.04
	28 Apr 2021	0937_ MW738 _20210428	Normal	EM2107858	28.5	0.43	38.3	1.06	1.18	9.84	0.83	<0.02	0.3	0.34	1.46	0.20	<0.02	<0.02	<0.02
	14 Jul 2021	0937_MW738_210714	Normal	EM2113872-AB	55.1	0.86	73.1	2.05	2.83	18.0	1.71	<0.02	0.4	0.65	2.80	0.48	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW738_211116	Normal	EM2123080	50.8	0.94	71.1	3.27	3.02	20.3	1.39	<0.04	0.2	0.84	3.17	0.48	<0.04	<0.04	<0.04
	18 Feb 2022	0937_MW738_220218	Normal	EM2202703	83.5	2.39	142	11.2	10.9	58.4	3.22	<0.02	1	2.75	13.8	1.72	<0.02	<0.02	<0.02
	26 May 2022	0937_MW738_220526	Normal	EM2210316	156	6.05	314	24.7	28.1	158	6.60	0.02	2.6	6.56	33.4	4.56	0.02	<0.02	<0.02
	25 Aug 2022	0937_MW738_220825	Normal	EM2216476	132	5.06	251	20.6	27.5	119	5.38	<0.03	1.5	5.11	25.8	3.73	<0.03	<0.03	<0.03
	24 Nov 2022	0937_MW738_221124	Normal	EM2223510	103	3.42	190	15.2	17.6	87.5	4.62	<0.04	0.8	2.91	16.1	2.31	<0.04	<0.04	<0.04
	17 Nov 2023	0937_MW738_231117	Normal	EM2320952	99.6	5.42	229	20.8	26.4	129	6.21	<0.02	1.3	5.01	26.5	4.41	0.02	<0.02	<0.02
MW739	28 Oct 2016	MW739	Normal	EM1612912	3	0.1	6.94	0.92	0.63	3.94	0.17	<0.02	<0.1	0.17	0.49	0.07	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW739_191128	Normal	EM1920529	2.57	0.15	5.67	0.73	0.65	3.10	0.18	<0.02	0.1	0.19	0.96	0.10	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW739_20200318	Normal	EM2004711	5.36	0.34	11.3	1.42	1.69	5.96	0.34	<0.05	<0.2	0.30	1.76	0.24	<0.05	<0.05	<0.05
	17 Jun 2020	0937_MW739_200617	Normal	EM2010514	7.64	0.42	14.2	1.06	1.18	6.60	0.37	<0.02	0.2	0.32	1.70	0.20	<0.02	<0.02	<0.02
	09 Nov 2020	0937_MW739_201109	Normal	EM2020050	6.91	0.28	11.3	0.71	0.72	4.36	0.28	<0.04	<0.2	0.16	0.96	0.12	<0.04	<0.04	<0.04
	29 Jan 2021	0937_MW739_210129	Normal	EM2101229	6.72	0.32	10.5	1.22	0.74	3.79	0.33	<0.02	0.2	0.24	1.18	0.20	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW739_20210420	Normal	EM2107085	8.90	0.34	12.6	0.97	0.72	3.73	0.52	<0.02	0.1	0.21	1.30	0.18	<0.02	<0.02	<0.02
	15 Jul 2021	0937_MW739_210715	Normal	EM2113872-AB	9.25	0.38	13.4	0.66	0.67	4.19	0.32	<0.02	0.2	0.22	1.10	0.18	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW739_211117	Normal	EM2123080	10.3	0.42	15.0	0.69	0.94	4.71	0.43	<0.02	0.2	0.29	1.29	0.19	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW739_220217	Normal	EM2202703	13.2	0.51	19.1	1.14	1.09	5.89	0.51	<0.02	0.2	0.4	2.04	0.29	<0.02	<0.02	<0.02
	31 May 2022	0937_MW739_220530	Normal	EM2210316	15.8	0.64	24.1	1.34	1.35	8.32	0.67	<0.02	0.2	0.60	1.93	0.31	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW739_220825	Normal	EM2216476	8.33	0.43	14.6	1.13	1.14	6.25	0.45	<0.02	0.1	0.37	1.13	0.24	<0.02	<0.02	<0.02
	23 Nov 2022	0937_MW739_221123	Normal	EM2223510	6.85	0.37	11.8	1.30	1.15	4.97	0.33	<0.02	0.2	0.33	1.44	0.20	<0.02	<0.02	<0.02
		0937_QC207_221123	Interlab_D	945182	7.2	0.43	12.9	1.3	1.4	5.7	0.43	<0.01	0.24	0.25	1.8	0.23	<0.01	<0.01	<0.01
	15 Nov 2023	0937_MW739_231115	Normal	EM2320952	6.44	0.36	11.7	1.59	1.24	5.30	0.42	<0.02	0.2	0.25	1.25	0.21	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW740	28 Oct 2016	MW740	Normal	EM1612912	1.24	0.06	2.08	0.1	0.08	0.84	0.03	<0.02	<0.1	0.03	0.12	0.03	<0.02	<0.02	<0.02
	28 Nov 2019	0937_MW740_191128	Normal	EM1920529	4.55	0.09	5.88	0.15	0.16	1.33	0.11	<0.02	0.2	0.72	0.75	0.18	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW740_20200318	Normal	EM2004711	5.80	0.16	7.52	0.18	0.28	1.72	0.15	<0.02	0.2	0.60	0.94	0.22	<0.02	<0.02	<0.02
	17 Jun 2020	0937_MW740_20200617	Normal	EM2010514	6.56	0.19	8.33	0.22	0.24	2.10	0.15	<0.02	0.2	0.78	1.01	0.22	<0.02	<0.02	<0.02
	11 Nov 2020	0937_MW740_201111	Normal	EM2020050	3.44	0.14	4.93	0.25	0.20	1.49	0.11	<0.02	0.3	0.62	0.80	0.23	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW740_210101	Normal	EM2101575	3.47	0.12	4.89	0.22	0.19	1.42	0.12	<0.02	0.1	0.47	0.66	0.15	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ MW740 _20210420	Normal	EM2107085	2.98	0.09	4.10	0.18	0.12	1.12	0.09	<0.02	0.1	0.38	0.54	0.11	<0.02	<0.02	<0.02
	05 Aug 2021	0937_MW740_210805	Normal	EM2115476	3.23	0.13	4.73	0.19	0.13	1.50	0.10	<0.02	0.1	0.38	0.60	0.14	<0.02	<0.02	<0.02
	16 Nov 2021	0937_MW740_211116	Normal	EM2123080	3.05	0.13	4.47	0.14	0.22	1.42	0.11	<0.02	0.1	0.38	0.54	0.11	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW740_220217	Normal	EM2202703	3.68	0.15	5.22	0.22	0.2	1.54	0.11	<0.02	<0.1	0.46	0.8	0.15	<0.02	<0.02	<0.02
	31 May 2022	0937_MW740_220530	Normal	EM2210316	3.68	0.14	5.48	0.19	0.22	1.80	0.13	<0.02	<0.1	0.57	0.64	0.14	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW740_220825	Normal	EM2216476	3.23	0.12	4.76	0.17	0.16	1.53	0.11	<0.02	<0.1	0.35	0.37	0.12	<0.02	<0.02	<0.02
	29 Nov 2022	0937_MW740_221129	Normal	EM2223972	2.62	0.10	3.93	0.14	0.17	1.31	0.08	<0.02	<0.1	0.23	0.38	0.08	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW740_231115	Normal	EM2320952	2.93	0.11	4.26	0.14	0.19	1.33	0.11	<0.02	<0.1	0.27	0.43	0.10	<0.02	<0.02	<0.02
		0937_QC103_231115	Field_D	EM2320952	3.38	0.11	4.65	0.20	0.16	1.27	0.11	<0.02	<0.1	0.22	0.44	0.10	<0.02	<0.02	<0.02
		0937_QC203_231115	Interlab_D	1048259	3.2	0.10	4.4	0.14	0.15	1.2	0.08	<0.01	0.08	0.23	0.40	0.08	<0.01	<0.01	<0.01
MW741	28 Oct 2016	MW741	Normal	EM1612912	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		QCA387	Field_D	EM1612912	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		QCB388	Interlab_D	521623	0.01	<0.01	0.01	<0.01		<0.01			<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	27 Nov 2019	0937_MW741_191127	Normal	EM1920529	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_MW741_20200318	Normal	EM2004711	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC101_20200318	Field_D	EM2004711	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC201_20200318	Interlab_D	711148	0.02	<0.01	0.03	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	17 Jun 2020	0937_MW741_200617	Normal	EM2010514	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC106_200617	Field_D	EM2010514	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC206_200617	Interlab_D	726765	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	11 Nov 2020	0937_MW741_201111	Normal	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_MW741_210201	Normal	EM2101575	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	0937_ MW741 _20210421	Normal	EM2107085	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_MW741_210804	Normal	EM2115476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_MW741_211117	Normal	EM2123080	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_MW741_220217	Normal	EM2202703	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_MW741_220530	Normal	EM2210316	<0.01	<0.01	0.01	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_MW741_220825	Normal	EM2216476	0.30	<0.01	0.34	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC111_220825	Field_D	EM2216476	0.19	<0.01	0.22	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC211_220825	Interlab_D	922647	0.29	<0.01	0.37	<0.01	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
	29 Nov 2022	0937_MW741_221129	Normal	EM2223972	0.36	<0.01	0.52	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_MW741_231115	Normal	EM2320952	0.15	<0.01	0.20	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT027	31 May 2016	P001-OEW001	Normal	EM1606389	<0.01	<0.01	<0.01												
	07 Jun 2017	P001_OEW001	Normal	EM1707601	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	0937_POT027_191103	Normal	EM1920781	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Jun 2020	0937_POT027_200619	Normal	EM2010389	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_POT027_210204	Normal	EM2101561	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_POT027_220223	Normal	EM2203196	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	0937_POT027_220830	Normal	EM2216995	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Nov 2023	0937_POT027_231123	Normal	EM2320911	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
POT034	**07 Jun 2017**	**P028_OEW001**	**Normal**	**EM1707594**	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	**0937_POT034_191203**	**Normal**	**EM1920782**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	**0937_POT034_200618**	**Normal**	**EM2010388**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	**0937_POT034_210103**	**Normal**	**EM2101567**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	**0937_POT034_210805**	**Normal**	**EM2115487**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Feb 2022	**0937_POT034_220224**	**Normal**	**EM2203202**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	**0937_POT034_220830**	**Normal**	**EM2216990**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2023	**0937_POT034_231116**	**Normal**	**EM2320916**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT042	**01 Jun 2016**	**P003-OEW002**	**Normal**	**EM1606482**	<0.01	<0.01	<0.01												
	08 Jun 2017	**P003_OEW002**	**Normal**	**EM1707600**	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	**0937_POT042_191203**	**Normal**	**EM1920790**	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	**0937_POT042_20200319**	**Normal**	**EM2004707**	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	**0937_POT042_20200618**	**Normal**	**EM2010382**	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	**0937_POT042_201112**	**Normal**	**EM2020041**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	**0937_POT042_210203**	**Normal**	**EM2101558**	0.03	<0.01	0.03	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Apr 2021	**0937_POT042_20210429**	**Normal**	**EM2107856**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	**0937_POT042_210805**	**Normal**	**EM2115478**	0.09	<0.01	0.13	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	**0937_POT042_211118**	**Normal**	**EM2123001**	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	**0937_POT042_220222**	**Normal**	**EM2203197**	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 May 2022	**0937_POT042_220529**	**Normal**	**EM2210255**	0.05	<0.01	0.08	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	**0937_POT042_220831**	**Normal**	**EM2216994-AD**	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	**0937_POT042_231121**	**Normal**	**EM2320912**	0.38	<0.01	0.44	0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT050	**27 Jun 2016**	**P004-OEW003**	**Normal**	**EM1607524**	<0.01	<0.01	<0.01												
	07 Jun 2017	**P004_OEW003**	**Normal**	**EM1707598**	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	**0937_POT050_191203**	**Normal**	**EM1920783**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	**0937_POT050_200618**	**Normal**	**EM2010383**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	**0937_POT050_210203**	**Normal**	**EM2101566**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	**0937_POT050_210804**	**Normal**	**EM2115482**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	**0937_POT050_220223**	**Normal**	**EM2203198**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	**0937_POT050_220830**	**Normal**	**EM2216993**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2023	**0937_POT050_231116**	**Normal**	**EM2320913**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT051	**01 Jun 2016**	**P003-OEW004**	**Normal**	**EM1606482**	<0.01	<0.01	<0.01												
	08 Jun 2017	**P003_OEW004**	**Normal**	**EM1707600**	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Dec 2019	**0937_POT051_191203**	**Normal**	**EM1920790**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	**0937_POT051_20200319**	**Normal**	**EM2004707**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	**0937_POT051_200618**	**Normal**	**EM2010382**	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	**0937_POT051_201112**	**Normal**	**EM2020041**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	**0937_POT051_210203**	**Normal**	**EM2101558**	0.10	<0.01	0.12	0.03	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Apr 2021	**0937_POT051_20210429**	**Normal**	**EM2107856**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	**0937_POT051_210806**	**Normal**	**EM2115478**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	**0937_POT051_211118**	**Normal**	**EM2123001**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	**0937_POT051_220223**	**Normal**	**EM2203197**	0.01	<0.01	0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	**0937_POT051_220831**	**Normal**	**EM2216994-AD**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	**0937_POT051_231121**	**Normal**	**EM2320912**	0.37	<0.01	0.39	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW008	**03 May 2016**	**OMW008**	**Normal**	**EM1604884**	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 Nov 2019	**0937_MW008_191128**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	19 Mar 2020	**0937_MW008_20200319**	**Normal**	**EM2004708**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	18 Jun 2020	**0937_MW008_20200618**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	12 Nov 2020	**0937_MW008_201112**	**Normal**	**EM2020052**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Feb 2021	**0937_MW008_210204**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	04 May 2021	**0937_MW008_20210504**	**Normal**	**EM2108091**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	06 Aug 2021	**0937_MW008_210806**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	18 Nov 2021	**0937_MW008_211118**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	22 Feb 2022	**0937_MW008_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	28 May 2022	**0937_MW008_220528**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	29 Aug 2022	**0937_MW008_220829**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	29 Nov 2022	**0937_MW008_221129**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11
	20 Nov 2023	**0937_MW008_231120**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
MW009	**03 May 2016**	**OMW009**	**Normal**	**EM1604884**	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 Nov 2019	**0937_MW009_191128**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	20 Mar 2020	**0937_MW009_20200319**	**Normal**	**EM2004708**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	16 Jun 2020	**0937_MW009_200616**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	12 Nov 2020	**0937_MW009_201112**	**Normal**	**EM2020052**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Feb 2021	**0937_MW009_210204**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	29 Apr 2021	**0937_MW009_20210429**	**Normal**	**EM2107805**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	05 Aug 2021	**0937_MW009_210805**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	18 Nov 2021	**0937_MW009_211118**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Feb 2022	**0937_MW009_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	28 May 2022	**0937_MW009_220528**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	29 Aug 2022	**0937_MW009_220829**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	29 Nov 2022	**0937_MW009_221129**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	0.21
	20 Nov 2023	**0937_MW009_231120**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	1.05
MW010	**04 May 2016**	**OMW010**	**Normal**	**EM1604970**	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	**0937_OMW10_191203**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	17 Mar 2020	**0937_MW010_20200317**	**Normal**	**EM2004708**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Jun 2020	**0937_MW010_20200618**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	12 Nov 2020	**0937_MW010_201112**	**Normal**	**EM2020052**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	0.15
	01 Feb 2021	**0937_MW010_210201**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	21 Apr 2021	**0937_MW010_20210421**	**Normal**	**EM2107087**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	06 Aug 2021	**0937_MW010_210806**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Nov 2021	**0937_MW010_211118**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Feb 2022	**0937_MW010_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	31 May 2022	**0937_MW010_220531**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	0.10
	29 Aug 2022	**0937_MW010_220829**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	01 Dec 2022	**0937_MW010_221201**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Nov 2023	**0937_MW010_231123**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
MW014	**22 Nov 2019**	**0937_MW014_191122**	**Normal**	**EM1920034**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Jun 2020	**0937_MW014_200623**	**Normal**	**EM2010689**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_MW014_210203**	**Normal**	**EM2101569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
	04 Aug 2021	**0937_MW014_210804**	**Normal**	**EM2115486**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Feb 2022	**0937_MW014_220222**	**Normal**	**EM2203195**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Aug 2022	**0937_MW014_220829**	**Normal**	**EM2216998**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	20 Nov 2023	**0937_MW014_231120**	**Normal**	**EM2320909**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW015	**09 Jun 2017**	**OMW015**	**Normal**	**EM1707603**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	**0937_OMW15_191203**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Jun 2020	**0937_MW015_200618**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	03 Feb 2021	**0937_MW015_210203**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	04 Aug 2021	**0937_MW015_210804**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2021	**0937_MW015_211117**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Feb 2022	**0937_MW015_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	29 May 2022	**0937_MW015_220529**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Aug 2022	**0937_MW015_220830**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	29 Nov 2022	**0937_MW015_221129**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	20 Nov 2023	**0937_MW015_231120**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11
MW016	**09 Jun 2017**	**OMW016**	**Normal**	**EM1707603**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	**0937_OMW16_191203**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	18 Jun 2020	**0937_MW016_200618**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_MW016_210203**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Aug 2021	**0937_MW016_210804**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	17 Nov 2021	**0937_MW016_211117**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	22 Feb 2022	**0937_MW016_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	29 May 2022	**0937_MW016_220529**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	30 Aug 2022	**0937_MW016_220830**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	29 Nov 2022	**0937_MW016_221129**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	20 Nov 2023	**0937_MW016_231120**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10
MW201	**12 May 2016**	**MW201-S**	**Normal**	**EM1605441**	<0.05	<0.05	<0.05	0.18	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14,200
	28 Nov 2019	**0937_MW201S_191128**	**Normal**	**EM1920529**	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9,210
	18 Mar 2020	**0937_MW201_20200318**	**Normal**	**EM2004711**	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	14,000
	17 Jun 2020	**0937_MW201_20200617**	**Normal**	**EM2010514**	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10,200
	11 Nov 2020	**0937_MW201_201111**	**Normal**	**EM2020050**	<0.04	<0.04	<0.10	0.06	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	7,160
	03 Feb 2021	**0937_MW201_210203**	**Normal**	**EM2101575**	<0.04	<0.04	<0.09	0.10	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	7,040
	27 Apr 2021	**0937_ MW201_20210427**	**Normal**	**EM2107858**	<0.04	<0.04	<0.09	0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	7,270
	03 Aug 2021	**0937_MW201_210803**	**Normal**	**EM2115476**	<0.04	<0.04	<0.09	0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.05	<0.05	<0.05	9,400
	16 Nov 2021	**0937_MW201_211116**	**Normal**	**EM2123080**	<0.04	<0.04	<0.09	0.07	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	8,850
	16 Feb 2022	**0937_MW201_220216**	**Normal**	**EM2202703**	<0.05	<0.05	<0.12	0.14	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	19,700
	19 May 2022	**0937_MW201_220525**	**Normal**	**EM2210316**	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	21,300
	24 Aug 2022	**0937_MW201_220824**	**Normal**	**EM2216476**	<0.36	<0.36	<0.90	<0.36	<0.90	<0.90	<0.90	<0.90	<0.36	<0.36	<0.36	0.80	<0.36	<0.36	13,600
	23 Nov 2022	**0937_MW201_221123**	**Normal**	**EM2223510**	<0.35	<0.35	<0.87	<0.35	<0.87	<0.87	<0.87	<0.87	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	10,600
	15 Nov 2023	**0937_MW201_231115**	**Normal**	**EM2320952**	<0.38	<0.38	<0.95	<0.38	<0.95	<0.95	<0.95	<0.95	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	15,200

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW202	01 Jun 2016	MW202S	Normal	EM1606406	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1,220
		QCA114	Field_D	EM1606406	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1,210
		QCB115	Interlab_D	503025	<0.01	<0.01	0.02	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	28 Nov 2019	0937_MW202S_191128	Normal	EM1920529	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	786
	18 Mar 2020	0937_MW202_20200318	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,020
	17 Jun 2020	0937_MW202_20200617	Normal	EM2010514	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	715
	11 Nov 2020	0937_MW202_201111	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	624
	03 Feb 2021	0937_MW202_210203	Normal	EM2101575	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	716
	28 Apr 2021	0937_ MW202 _20210428	Normal	EM2107858	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	684
		0937_QC108_20210428	Field_D	EM2107858	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	667
		QC208_20210428	Interlab_D	792537	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	938.56
	03 Aug 2021	0937_MW202_210803	Normal	EM2115476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	982
		0937_QC120_210803	Field_D	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	825
		0937_QC220_210803	Interlab_D	815502	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1,135.2
	16 Nov 2021	0937_MW202_211116	Normal	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,010
		0937_QC114_211116	Field_D	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,030
		0937_QC214_211116	Interlab_D	842318	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1,165.6
	16 Feb 2022	0937_MW202_220216	Normal	EM2202703	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2,160
	26 May 2022	0937_MW202_220526	Normal	EM2210316	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,590
	24 Aug 2022	0937_MW202_220824	Normal	EM2216476	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,300
	23 Nov 2022	0937_MW202_221123	Normal	EM2223510	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,530
	15 Nov 2023	0937_MW202_231115	Normal	EM2320952	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,180
MW302	28 Jun 2016	P011-OEW001	Normal	EM1607522															
		QCA128	Field_D	EM1607525															
		QCB129	Interlab_D	506186	<0.02	<0.02	<0.02	<0.1	<0.1		<0.1				<0.02	<0.05	<0.02		
	08 Jun 2017	P011_OWE001	Normal	EM1707596	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Dec 2019	0937_MW302_191204	Normal	EM1920785	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Jun 2020	0937_MW302_200618	Normal	EM2010384	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	03 Feb 2021	0937_MW302_210204	Normal	EM2101564	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	05 Aug 2021	0937_MW302_210705	Normal	EM2115484	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Feb 2022	0937_MW302_220222	Normal	EM2203199	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	30 Aug 2022	0937_MW302_220830	Normal	EM2216992	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2023	0937_MW302_231117	Normal	EM2320914	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW304	17 Oct 2015	35C	Normal													<0.1	<0.1		
	03 May 2016	OMW001	Normal	EM1604884	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
		QCA100	Field_D	EM1604884	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.26
		QCB101_160503	Interlab_D	498992	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	02 Dec 2019	0937_OMW001_191202	Normal	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.43
	16 Mar 2020	0937_MW304_20200316	Normal	EM2004708	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.86
	18 Jun 2020	0937_MW304_20200618	Normal	EM2010387	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	2.34
	12 Nov 2020	0937_MW304_201112	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59
	03 Feb 2021	0937_MW304_210203	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.56
	28 Apr 2021	0937_MW304_20210428	Normal	EM2107805	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	1.14
	04 Aug 2021	0937_MW304_210804	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44
	17 Nov 2021	0937_MW304_211117	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.28
	22 Feb 2022	0937_MW304_220222	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
	28 May 2022	0937_MW304_220528	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	29 Aug 2022	0937_MW304_220829	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29
	30 Nov 2022	0937_MW304_221130	Normal	EM2223925	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23
	21 Nov 2023	0937_MW304_231121	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.50	<0.05	<0.05	2.40
MW306	18 Apr 2016	FF-MW1	Normal																
	17 Mar 2020	0937_MW306_20200317	Normal	EM2004711	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4,820
	16 Jun 2020	0937_MW306_200616	Normal	EM2010514	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3,460
	10 Nov 2020	0937_MW306_201011	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	3,090
	28 Jan 2021	0937_MW306_210128	Normal	EM2101229	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	2,920
	26 Apr 2021	0937_MW306_20210426	Normal	EM2107858	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	4,150
		0937_QC101_20210426	Field_D	EM2107858	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	4,440
		QC201_20210426	Interlab_D	792537	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	380.7
	13 Jul 2021	0937_MW306_210713	Normal	EM2113872-AB	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	2,420
		0937_QC101_210713	Field_D	EM2113872-AB	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	2,660
		0937_QC201_210713	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	389.73
	15 Nov 2021	0937_MW306_211115	Normal	EM2123080	<0.04	<0.04	<0.09	0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	3,350
	15 Feb 2022	0937_MW306_220215	Normal	EM2202703	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3,810
		0937_QC103_220215	Field_D	EM2202703	<0.02	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4,420
		0937_QC203_220215	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4,643.96
	24 May 2022	0937_QC100_220524	Field_D	EM2210316	<0.40	<0.40	<1.00	<0.40	<1.00	<1.00	<1.00	<1.00	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	2,910
		0937_QC200_220524	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1,998.85
	25 May 2022	0937_MW306_220525	Normal	EM2210316	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3,950
	23 Aug 2022	0937_MW306_220823	Normal	EM2216476	<0.43	<0.43	<1.07	<0.43	<1.07	<1.07	<1.07	<1.07	<0.43	<0.43	<0.43	1.01	<0.43	<0.43	3,440
		0937_QC102_220823	Field_D	EM2216476	<0.35	<0.35	<0.88	<0.35	<0.88	<0.88	<0.88	<0.88	<0.35	<0.35	<0.35	0.54	<0.35	<0.35	3,500
		0937_QC202_220823	Interlab_D	922647	0.08	0.09	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	0.22	0.19	<0.01	0.06	<0.01	0.05	2,526.5
	22 Nov 2022	0937_MW306_221122	Normal	EM2223510	<0.35	<0.35	<0.88	<0.35	<0.88	<0.88	<0.88	<0.88	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	2,590
		0937_QC201_221122	Interlab_D	945182	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	2,594.8
	16 Nov 2023	0937_MW306_231116	Normal	EM2320952	<0.04	<0.04	<0.09	0.12	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,990

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW310	**17 Oct 2015**	**35B**	**Normal**													<0.1	<0.1		
	03 May 2016	**OMW002**	**Normal**	**EM1604970**	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77
	02 Dec 2019	**0937_OMW002_191202**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61
		0937_QC208_191202	**Interlab_D**	**692892**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.68
	03 Dec 2019	**0937_QC108_191202**	**Field_D**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.60
	16 Mar 2020	**0937_MW310_20200316**	**Normal**	**EM2004708**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.67
	18 Jun 2020	**0937_MW310_20200618**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.74
	12 Nov 2020	**0937_MW310_201112**	**Normal**	**EM2020052**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31
	03 Feb 2021	**0937_MW310_210203**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59
	28 Apr 2021	**0937_MW310_20210428**	**Normal**	**EM2107805**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81
	04 Aug 2021	**0937_MW310_210804**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.78
	17 Nov 2021	**0937_MW310_211117**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.88
	22 Feb 2022	**0937_MW310_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89
	28 May 2022	**0937_MW310_220528**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.69
	29 Aug 2022	**0937_MW310_220829**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.94
	30 Nov 2022	**0937_MW310_221130**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.76
	21 Nov 2023	**0937_MW310_231121**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.37	<0.05	<0.05	2.82
MW312	**17 Oct 2015**	**35A**	**Normal**													<0.1	<0.1		
	03 May 2016	**OMW003**	**Normal**	**EM1604970**	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	02 Dec 2019	**0937_OMW003_191202**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	16 Mar 2020	**0937_MW312_20200316**	**Normal**	**EM2004708**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	18 Jun 2020	**0937_MW312_20200618**	**Normal**	**EM2010387**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	12 Nov 2020	**0937_MW312_201112**	**Normal**	**EM2020052**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_MW312_210203**	**Normal**	**EM2101560**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 Apr 2021	**0937_MW312_20210428**	**Normal**	**EM2107805**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	0.28
	04 Aug 2021	**0937_MW312_210804**	**Normal**	**EM2115569**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.05	<0.05	<0.05	0.11
	17 Nov 2021	**0937_MW312_211117**	**Normal**	**EM2123079**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	0.17
	22 Feb 2022	**0937_MW312_220222**	**Normal**	**EM2203192**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	0.18
	28 May 2022	**0937_MW312_220528**	**Normal**	**EM2210253**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Aug 2022	**0937_MW312_220829**	**Normal**	**EM2216985**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	0.49
	30 Nov 2022	**0937_MW312_221130**	**Normal**	**EM2223925**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	0.50
	21 Nov 2023	**0937_MW312_231121**	**Normal**	**EM2320919**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
MW315	**18 Apr 2016**	**FF-MW3**	**Normal**																
	17 Mar 2020	**0937_MW315_20200317**	**Normal**	**EM2004711**	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	744
	16 Jun 2020	**0937_MW315_200616**	**Normal**	**EM2010514**	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	992
	10 Nov 2020	**0936_MW315_201110**	**Normal**	**EM2020050**	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	454
	28 Jan 2021	**0937_MW315_210128**	**Normal**	**EM2101229**	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	608
	16 Nov 2023	**0937_MW315_231116**	**Normal**	**EM2320952**	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	370

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons												
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW316	17 Oct 2015	UDA	Normal													<0.1	<0.1		
	03 May 2016	OMW004	Normal	EM1604884	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Nov 2019	0937_OMW004_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	19 Mar 2020	0937_MW316_20200319	Normal	EM2004708	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	19 Jun 2020	0937_MW316_20200619	Normal	EM2010387	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	12 Nov 2020	0937_MW316_201112	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	04 Feb 2021	0937_MW316_210203	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 Apr 2021	0937_MW316_20210429	Normal	EM2107805	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	05 Aug 2021	0937_MW316_210805	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	18 Nov 2021	0937_MW316_211118	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	24 Feb 2022	0937_MW316_220224	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 May 2022	0937_MW316_220528	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	29 Aug 2022	0937_MW316_220829	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93
	30 Nov 2022	0937_MW316_221130	Normal	EM2223925	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	20 Nov 2023	0937_MW316_231120	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
MW318	17 Oct 2015	UIA	Normal													<0.1	<0.1		
	03 May 2016	OMW005	Normal	EM1604970	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Nov 2019	0937_OMW005_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	19 Mar 2020	0937_MW318_20200319	Normal	EM2004708	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	19 Jun 2020	0937_MW318_20200619	Normal	EM2010387	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	12 Nov 2020	0937_MW318_201112	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	04 Feb 2021	0937_MW318_210203	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	27 Apr 2021	0937_MW318_20210427	Normal	EM2107805	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	05 Aug 2021	0937_MW318_210805	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2021	0937_MW318_211117	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	22 Feb 2022	0937_MW318_220222	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	28 May 2022	0937_MW318_220528	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Aug 2022	0937_MW318_220829	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	30 Nov 2022	0937_MW318_221130	Normal	EM2223925	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	20 Nov 2023	0937_MW318_231120	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14
MW319	24 Oct 2017	P003_OEW005	Normal	EM1714625	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 Nov 2019	0937_MW319_191128	Normal	EM1920529-AC	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	19 Mar 2020	0937_MW319_20200319	Normal	EM2004707	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	18 Jun 2020	0937_MW319_20200618	Normal	EM2010382	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	12 Nov 2020	0937_MW319_201112	Normal	EM2020041	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Feb 2021	0937_MW319_210204	Normal	EM2101558	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Apr 2021	0937_MW319_20210429	Normal	EM2107856	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
		0937_QC112_20210429	Field_D	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	06 Aug 2021	0937_MW319_210806	Normal	EM2115478	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17
	17 Nov 2021	0937_MW319_211118	Normal	EM2123001	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Feb 2022	0937_MW319_220223	Normal	EM2203197	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 May 2022	0937_MW319_220529	Normal	EM2210255	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	01 Sep 2022	0937_MW319_220901	Normal	EM2216994-AD	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC119_220901	Field_D	EM2216994-AD	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC219_220831	Interlab_D	922406	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	21 Nov 2023	0937_MW319_231121	Normal	EM2320912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW321	17 Oct 2015	USA	Normal													<0.1	<0.1		
	04 May 2016	OMW006	Normal	EM1604970	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Nov 2019	0937_OMW006_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	19 Mar 2020	0937_MW321_20200319	Normal	EM2004708	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	19 Jun 2020	0937_MW321_20200619	Normal	EM2010387	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	12 Nov 2020	0937_MW321_201112	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	04 Feb 2021	0937_MW321_210203	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	27 Apr 2021	0937_MW321_20210427	Normal	EM2107805	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	0.11
	05 Aug 2021	0937_MW321_210805	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	0.21
	17 Nov 2021	0937_MW321_211117	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	0.08
	22 Feb 2022	0937_MW321_220222	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	28 May 2022	0937_MW321_220528	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Aug 2022	0937_MW321_220829	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	30 Nov 2022	0937_MW321_221130	Normal	EM2223925	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	20 Nov 2023	0937_MW321_231120	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22
MW323	01 Jun 2016	MW201D	Normal	EM1606406	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	76.1
	27 Nov 2019	0937_MW201D_191127	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	91.9
	18 Mar 2020	0937_MW323_20200318	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	227
	17 Jun 2020	0937_MW323_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	80.4
	11 Nov 2020	0937_MW323_201111	Normal	EM2020050	<0.04	<0.04	<0.11	<0.04	<0.11	<0.11	<0.11	<0.11	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	57.2
	03 Feb 2021	0937_MW323_210203	Normal	EM2101575	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	48.4
	27 Apr 2021	0937_ MW323_20210427	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	53.5
	03 Aug 2021	0937_MW323_210803	Normal	EM2115476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.06	<0.05	<0.05	44.4
		0937_QC122_210803	Field_D	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.6
		0937_QC222_210803	Interlab_D	815502	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	61.95
	16 Nov 2021	0937_MW323_211116	Normal	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	141
	16 Feb 2022	0937_MW323_220216	Normal	EM2202703	<0.02	<0.02	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	237
	25 May 2022	0937_MW323_220525	Normal	EM2210316	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	231
	24 Aug 2022	0937_MW323_220824	Normal	EM2216476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	218
	23 Nov 2022	0937_MW323_221123	Normal	EM2223510	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	193
	15 Nov 2023	0937_MW323_231115	Normal	EM2320952	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	186
MW324	01 Jun 2016	MW202D	Normal	EM1606406	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.2
	18 Mar 2020	0937_MW324_20200318	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	88.6
	19 Jun 2020	0937_MW324_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	74.4
	11 Nov 2020	0937_MW324_201111	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	58.7
	03 Feb 2021	0937_MW324_210203	Normal	EM2101575	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	65.3
	27 Apr 2021	0937_ MW324_20210427	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.6
	03 Aug 2021	0937_MW324_210803	Normal	EM2115476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	114
	16 Nov 2021	0937_MW324_211116	Normal	EM2123080	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	235
	16 Feb 2022	0937_MW324_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	395
	26 May 2022	0937_MW324_220526	Normal	EM2210316	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	354
	24 Aug 2022	0937_MW324_220824	Normal	EM2216476	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	292
		0937_QC108_220824	Field_D	EM2216476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	326
		0937_QC208_220824	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	369.52
	23 Nov 2022	0937_MW324_221123	Normal	EM2223510	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	322
	15 Nov 2023	0937_MW324_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	166

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW325	18 Oct 2016	MW706	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	109
	28 Oct 2016	MW706A	Normal	EM1612912	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	7.45
	16 Jun 2020	0937_MW325_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.28	<0.05	<0.05	48.0
	14 Jul 2021	0937_MW325_210714	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	25.2
	15 Nov 2021	0937_MW325_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	19.6
	18 Feb 2022	0937_MW325_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.25	<0.05	<0.05	54
	25 May 2022	0937_MW325_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	53.1
	26 Aug 2022	0937_MW325_220826	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	24.0
	24 Nov 2022	0937_MW325_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	36.5
	16 Nov 2023	0937_MW325_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	33.2
MW326	28 Oct 2016	MW727A	Normal	EM1612912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.42
	20 Nov 2019	0937_MW727A_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.61
	17 Mar 2020	0937_MW326_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.9
	16 Jun 2020	0937_MW326_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	28.1
	10 Nov 2020	0937_MW326_201110	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	51.6
	28 Jan 2021	0937_MW326_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	28.7
	26 Apr 2021	0937_ MW326 _20210426	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	26.2
	13 Jul 2021	0937_MW326_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	29.2
		0937_QC100_210713	Field_D	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	34.0
		0937_QC200_210713	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	32.88
	15 Nov 2021	0937_MW326_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	29.0
		0937_QC109_211115	Field_D	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.9
		0937_QC209_211115	Interlab_D	842318	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	41.72
	15 Feb 2022	0937_MW326_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	51.4
		0937_QC105_220215	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	50.9
		0937_QC205_220215	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	66.92
	25 May 2022	0937_MW326_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.2
	23 Aug 2022	0937_MW326_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.4
	24 Nov 2022	0937_MW326_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.4
	16 Nov 2023	0937_MW326_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	22.6
MW603	11 May 2016	MW603	Normal	EM1605366	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89
		QCA106	Field_D	EM1605366	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93
		QCB107	Interlab_D	500316												<0.05	<0.01		
	25 Nov 2019	0937_MW603_191125	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.00
	16 Jun 2020	0937_MW603_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.70
	03 Feb 2021	0937_MW603_210203	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49
	03 Aug 2021	0937_MW603_210802	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.73
	16 Feb 2022	0937_MW603_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.34
	23 Aug 2022	0937_MW603_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.84
	16 Nov 2023	0937_MW603_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.67
		0937_MW603_231116_02	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.00

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW607	19 Aug 2015	MW607	Normal	EM1513576												<0.1	<0.1		
	01 Jun 2016	MW607	Normal	EM1606406	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	55.3
	20 Nov 2019	0937_MW607_191120	Normal	EM1920034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	58.6
	17 Mar 2020	0937_MW607_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	81.8
	16 Jun 2020	0937_MW607_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	59.4
	10 Nov 2020	0937_MW607_201110	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	48.5
	28 Jan 2021	0937_MW607_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	40.4
		0937_QC101_210128	Field_D	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	42.8
		0937_QC201_210128	Interlab_D	770470	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	101.1
	26 Apr 2021	0937_ MW607 _20210426	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	40.8
	13 Jul 2021	0937_MW607_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.0
	15 Nov 2021	0937_MW607_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.0
	24 Feb 2022	0937_MW607_220224	Normal	EM2203247	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.7
		0937_QC123_229224	Field_D	EM2203247	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	42.6
		0937_QC223_220224	Interlab_D	866689	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	56.21
	25 May 2022	0937_MW607_220525	Normal	EM2210316	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	51.3
	23 Aug 2022	0937_MW607_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	42.7
	24 Nov 2022	0937_MW607_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	49.6
	15 Nov 2023	0937_MW607_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.65
		0937_QC108_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.53
		0937_QC208_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.9
MW609	11 May 2016	MW609	Normal	EM1605365	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.62
	21 Nov 2019	0937_MW609_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.72
	15 Jun 2020	0937_MW609_20200615	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.1
	03 Feb 2021	0937_MW609_210203	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.28
	13 Jul 2021	0937_MW609_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.39
	15 Feb 2022	0937_MW609_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.46
		0937_QC202_220215	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	9.04
	18 Feb 2022	0937_QC102_220215	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.56
	23 Aug 2022	0937_MW609_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.17
	15 Nov 2023	0937_MW609_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.07
		0937_QC109_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.20
		0937_QC209_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4.1
MW610	02 Jun 2016	MW610	Normal	EM1606511	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.77
		QCA116	Field_D	EM1606511	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.61
		QCB117	Interlab_D	503282	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	20 Nov 2019	0937_MW610_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.6
	16 Jun 2020	0937_MW610_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.9
	28 Jan 2021	0937_MW610_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.9
	13 Jul 2021	0937_MW610_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.3
	15 Feb 2022	0937_MW610_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24
	23 Aug 2022	0937_MW610_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.4

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW612	31 May 2016	MW612	Normal	EM1606406	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.52
	20 Nov 2019	0937_MW612_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.22
	17 Mar 2020	0937_MW612_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.0
	13 Nov 2020	0937_MW612_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.71
	28 Jan 2021	0937_MW612_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.92
	22 Apr 2021	0937_ MW612_20210422	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.81
	13 Jul 2021	0937_MW612_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.85
	15 Nov 2021	0937_MW612_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.47
	16 Feb 2022	0937_MW612_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.06
	25 May 2022	0937_MW612_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.46
		0937_QC106_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.0
		0937_QC206_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	8.64
	23 Aug 2022	0937_MW612_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	5.02
	24 Nov 2022	0937_MW612_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	5.83
	16 Nov 2023	0937_MW612_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.86
MW616	10 May 2016	MW616	Normal	EM1605278	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	419
	29 Nov 2019	0937_MW616_191129	Normal	EM1920529	<0.05	<0.05	<0.12	0.10	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	604
	17 Mar 2020	0937_MW616_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,080
	16 Jun 2020	0937_MW616_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	761
	13 Nov 2020	0937_MW616_201110	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	468
	28 Jan 2021	0937_MW616_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	465
	28 Apr 2021	0937_ MW616_20210428	Normal	EM2107858	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	599
	14 Jul 2021	0937_MW616_210714	Normal	EM2113872-AB	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	394
	12 Nov 2021	0937_MW616_211112	Normal	EM2123080	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	784
	16 Feb 2022	0937_MW616_220216	Normal	EM2202703	<0.05	<0.05	<0.12	0.07	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,490
	25 May 2022	0937_MW616_220525	Normal	EM2210316	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,110
	24 Aug 2022	0937_MW616_220824	Normal	EM2216476	<0.03	<0.03	<0.09	0.09	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,300
	23 Nov 2022	0937_MW616_221123	Normal	EM2223510	<0.03	<0.03	<0.09	0.10	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,120
	16 Nov 2023	0937_MW616_231116	Normal	EM2320952	<0.04	<0.04	<0.09	0.12	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	823
MW617	02 Jun 2016	MW617	Normal	EM1606511	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Nov 2019	0937_MW617_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	17 Jun 2020	0937_MW617_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.35
	01 Feb 2021	0937_MW617_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.76
	15 Jul 2021	0937_MW617_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22
	16 Feb 2022	0937_MW617_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18
	25 Aug 2022	0937_MW617_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61
	15 Nov 2023	0937_MW617_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.71
MW622	12 May 2016	MW622	Normal	EM1605438	<0.05	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	392
	29 Nov 2019	0937_MW622_191129	Normal	EM1920529	<0.05	<0.05	<0.12	0.08	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	644
	11 Nov 2020	0937_MW622_20111	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	618
	04 Aug 2021	0937_MW622_210803	Normal	EM2115476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	798
	16 Nov 2021	0937_MW622_211116	Normal	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	668
	16 Feb 2022	0937_MW622_220216	Normal	EM2202703	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,270
	26 May 2022	0937_MW622_220525	Normal	EM2210316	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	836
	24 Aug 2022	0937_MW622_220824	Normal	EM2216476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	366
	23 Nov 2022	0937_MW622_221123	Normal	EM2223510	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	692
	15 Nov 2023	0937_MW622_231115	Normal	EM2320952	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	654
		0937_QC101_231115	Field_D	EM2320952	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	600
		0937_QC201_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	501.5

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW623	02 Jun 2016	MW623	Normal	EM1606511	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.49
	28 Nov 2019	0937_MW623_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.09
	03 Aug 2021	0937_MW623_210803	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.91
		0937_QC121_210803	Field_D	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.08
		0937_QC221_210803	Interlab_D	815502	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	9.89
	16 Feb 2022	0937_MW623_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.5
	24 Aug 2022	0937_MW623_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	8.38
	15 Nov 2023	0937_MW623_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.26
		0937_QC100_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.32
		0937_QC200_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	8.89
MW626	12 May 2016	MW626	Normal	EM1605438	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	27 Nov 2019	0937_MW626_191127	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68
	17 Jun 2020	0937_MW626_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.11
		0937_QC100_200617	Field_D	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.03
		0937_QC200_200617	Interlab_D	726765	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.67
	03 Feb 2021	0937_MW626_210203	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.42	<0.05	<0.05	6.96
	03 Aug 2021	0937_MW626_210803	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.35	<0.05	<0.05	11.0
	16 Feb 2022	0937_MW626_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.61	<0.05	<0.05	16.4
	24 Aug 2022	0937_MW626_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.53	<0.05	<0.05	7.41
	15 Nov 2023	0937_MW626_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.22	<0.05	<0.05	13.1
MW627	12 May 2016	MW627	Normal	EM1605438	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.4
	28 Nov 2019	0937_MW627_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	66.6
		0937_QC101_191128	Field_D	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.09
		0937_QC201_191128	Interlab_D	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.14
	17 Jun 2020	0937_MW627_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	56.0
	11 Nov 2020	0937_MW627_201111	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	49.5
	03 Feb 2021	0937_MW627_210203	Normal	EM2101575	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	41.2
	27 Apr 2021	0937_ MW627 _20210427	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.8
	03 Aug 2021	0937_MW627_210803	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	54.8
	16 Nov 2021	0937_MW627_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	68.8
	16 Feb 2022	0937_MW627_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	128
	25 May 2022	0937_QC213_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	91.18
	26 May 2022	0937_MW627_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	87.1
		0937_QC113_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	87.1
	24 Aug 2022	0937_MW627_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	72.1
	23 Nov 2022	0937_MW627_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	57.9
	15 Nov 2023	0937_MW627_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	59.1

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW628	**20 Aug 2015**	**MW628**	**Normal**	**EM1513576**												<0.1	<0.1		
	01 Jun 2016	**MW628**	**Normal**	**EM1606406**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	22.1
	28 Nov 2019	**0937_MW628_191128**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.4
	18 Mar 2020	**0937_MW628_20200318**	**Normal**	**EM2004711**	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.1
	17 Jun 2020	**0937_MW628_20200617**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.5
	09 Nov 2020	**0937_MW628_201109**	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.0
	29 Jan 2021	**0937_MW628_210129**	**Normal**	**EM2101229**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.8
	20 Apr 2021	**0937_ MW628 _20210420**	**Normal**	**EM2107085**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.6
	04 Aug 2021	**0937_MW628_210803**	**Normal**	**EM2115476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.0
	16 Nov 2021	**0937_MW628_211116**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.5
	17 Feb 2022	**0937_MW628_220217**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.2
	31 May 2022	**0937_MW628_220530**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.7
	25 Aug 2022	**0937_MW628_220825**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.2
	23 Nov 2022	**0937_MW628_221123**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.4
	16 Nov 2023	**0937_MW628_231116**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.2
MW636	**20 Aug 2015**	**MW636**	**Normal**	**EM1513576**												<0.1	<0.1		
	13 May 2016	**MW636**	**Normal**	**EM1605449**	<0.05	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	14 Jul 2021	**0937_MW636_210714**	**Normal**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2021	**0937_MW636_211117**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.09
	21 Feb 2022	**0937_MW636_220221**	**Normal**	**EM2203247**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.56
		0937_QC121_220221	**Field_D**	**EM2203247**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.67
		0937_QC221_220221	**Interlab_D**	**866689**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	3.16
	25 May 2022	**0937_MW636_220525**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.87
	23 Aug 2022	**0937_MW636_220823**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.96
		0937_QC104_220823	**Field_D**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.99
		0937_QC204_220823	**Interlab_D**	**922647**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.31
	24 Nov 2022	**0937_MW636_221124**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.84
	16 Nov 2023	**0937_MW636_231116**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.85
MW701	**18 Oct 2016**	**MW701**	**Normal**	**EM1612450**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	28 Nov 2019	**0937_MW701_191128**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Mar 2020	**0937_MW701_20200318**	**Normal**	**EM2004711**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	17 Jun 2020	**0937_MW701_20200617**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	11 Nov 2020	**0937_MW701_201111**	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	01 Feb 2021	**0947_MW701_210201**	**Normal**	**EM2101575**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	20 Apr 2021	**0937_ MW701 _20210420**	**Normal**	**EM2107085**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	03 Aug 2021	**0937_MW701_210803**	**Normal**	**EM2115476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14
	16 Nov 2021	**0937_MW701_211116**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	16 Feb 2022	**0937_MW701_220216**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	26 May 2022	**0937_MW701_220526**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	25 Aug 2022	**0937_MW701_220825**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54
		0937_QC110_220825	**Field_D**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54
		0937_QC210_220825	**Interlab_D**	**922647**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.64
	23 Nov 2022	**0937_MW701_221123**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	15 Nov 2023	**0937_MW701_231115**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW702	**19 Oct 2016**	**MW702**	**Normal**	**EM1612530**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
																			17.2
	28 Nov 2019	**0937_MW702_191128**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.2
		0937_QC104_191128	**Field_D**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.3
		0937_QC204_191128	**Interlab_D**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.7
	18 Mar 2020	**0937_MW702_20200318**	**Normal**	**EM2004711**	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	31.8
	17 Jun 2020	**0937_MW702_200617**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	20.3
	09 Nov 2020	**0937_MW702_201109**	**Normal**	**EM2020050**	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	11.6
	29 Jan 2021	**0937_MW702_210129**	**Normal**	**EM2101229**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.3
	20 Apr 2021	**0937_ MW702 _20210420**	**Normal**	**EM2107085**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.0
	15 Jul 2021	**0937_MW702_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.8
	16 Nov 2021	**0937_MW702_211116**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.0
	17 Feb 2022	**0937_MW702_220217**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.5
	31 May 2022	**0937_MW702_220530**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.0
	25 Aug 2022	**0937_MW702_220825**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.1
	23 Nov 2022	**0937_MW702_221123**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.8
	15 Nov 2023	**0937_MW702_231115**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.5
MW704	**18 Oct 2016**	**MW704**	**Normal**	**EM1612450**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	676
	27 Nov 2019	**0937_MW704_191127**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	123
	18 Mar 2020	**0937_MW704_20200318**	**Normal**	**EM2004711**	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	139
	17 Jun 2020	**0937_MW704_200617**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	51.7
	11 Nov 2020	**0937_MW704_201111**	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.22
	03 Feb 2021	**0937_MW704_210203**	**Normal**	**EM2101575**	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	143
	28 Apr 2021	**0937_ MW704_20210428**	**Normal**	**EM2107858**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.6
	03 Aug 2021	**0937_MW704_210803**	**Normal**	**EM2115476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.2
	16 Nov 2021	**0937_MW704_211116**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.3
	16 Feb 2022	**0937_MW704_220216**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	74
	25 May 2022	**0937_MW704_220525**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	126
	24 Aug 2022	**0937_MW704_220824**	**Normal**	**EM2216476**	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	112
	23 Nov 2022	**0937_MW704_221123**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	114
	15 Nov 2023	**0937_MW704_231115**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	108
MW705	**18 Oct 2016**	**MW705**	**Normal**	**EM1612450**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12
	27 Nov 2019	**0937_MW705_191127**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23
	18 Mar 2020	**0937_MW705_20200318**	**Normal**	**EM2004711**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	2.78
	17 Jun 2020	**0937_MW705_200617**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62
	11 Nov 2020	**0937_MW705_201111**	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	03 Feb 2021	**0937_MW705_210203**	**Normal**	**EM2101575**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.46
	27 Apr 2021	**0937_ MW705 _20210428**	**Normal**	**EM2107858**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23
	03 Aug 2021	**0937_MW705_210803**	**Normal**	**EM2115476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24
	16 Nov 2021	**0937_MW705_211116**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59
	16 Feb 2022	**0937_MW705_220216**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	1.65
	25 May 2022	**0937_MW705_220525**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.19	<0.05	<0.05	1.65
	24 Aug 2022	**0937_MW705_220824**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.19	<0.05	<0.05	1.69
	23 Nov 2022	**0937_MW705_221123**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	1.55
	15 Nov 2023	**0937_MW705_231115**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.09
		0937_QC102_231115	**Field_D**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.36
		0937_QC202_231115	**Interlab_D**	**1048259**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.52

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW707	19 Oct 2016	MW707	Normal	EM1612530	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.57
	28 Nov 2019	0937_MW707_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.9
	20 Mar 2020	0937_MW707_20200318	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.3
	17 Jun 2020	0937_MW707_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.87
	11 Nov 2020	0937_MW707_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.56
	01 Feb 2021	0937_MW707_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.02
	20 Apr 2021	0937_ MW707 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.59
	04 Aug 2021	0937_MW707_210804	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.30
	16 Nov 2021	0937_MW707_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.21
	16 Feb 2022	0937_MW707_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.86
	31 May 2022	0937_MW707_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.01
	25 Aug 2022	0937_MW707_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.68
		0937_QC112_220825	Field_D	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.77
		0937_QC212_220825	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	5.55
	29 Nov 2022	0937_MW707_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.67
	15 Nov 2023	0937_MW707_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.12
MW708	18 Oct 2016	MW708	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.5
	29 Nov 2019	0937_MW708_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.86	<0.05	<0.05	6.59
	18 Mar 2020	0937_MW708_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.15
	17 Jun 2020	0937_MW708_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.34
	11 Nov 2020	0937_MW708_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.03
	01 Feb 2021	0937_MW708_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.98
	20 Apr 2021	0937_ MW708 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.78
	04 Aug 2021	0937_MW708_210804	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.50
	16 Nov 2021	0937_MW708_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.35
	17 Feb 2022	0937_MW708_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.61
	31 May 2022	0937_MW708_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.79
	25 Aug 2022	0937_MW708_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.95
	23 Nov 2022	0937_MW708_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.06
	15 Nov 2023	0937_MW708_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.18
MW709	19 Oct 2016	MW709	Normal	EM1612530	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.9
	28 Nov 2019	0937_MW709_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.4
	18 Mar 2020	0937_MW709_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	25.9
	17 Jun 2020	0937_MW709_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.1
	11 Nov 2020	0937_MW709_201111	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	16.6
	01 Feb 2021	0937_MW709_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.0
	27 Apr 2021	0937_ MW709 _20210427	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.0
	15 Jul 2021	0937_MW709_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.6
		0937_QC119_210715	Field_D	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.4
		0937_QC219_210715	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	23.2
	16 Nov 2021	0937_MW709_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.4
	16 Feb 2022	0937_MW709_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.9
	31 May 2022	0937_MW709_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	21.3
	25 Aug 2022	0937_MW709_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.9
	23 Nov 2022	0937_MW709_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.0
	15 Nov 2023	0937_MW709_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.2

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW711	19 Oct 2016	MW711	Normal	EM1612530	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	29 Nov 2019	0937_MW711_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	18 Mar 2020	0937_MW711_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	17 Jun 2020	0937_MW711_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	11 Nov 2020	0937_MW711_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	29 Jan 2021	0937_MW711_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	28 Apr 2021	0937_ MW711_20210428	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.72
	04 Aug 2021	0937_MW711_210804	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	16 Nov 2021	0937_MW711_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16
	18 Feb 2022	0937_MW711_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31
	25 May 2022	0937_MW711_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	24 Aug 2022	0937_MW711_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	29 Nov 2022	0937_MW711_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20
	20 Nov 2023	0937_MW711_231120	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
MW712	29 Nov 2019	0937_MW712_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	11 Nov 2020	0937_MW712_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	01 Feb 2021	0937_MW712_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	21 Apr 2021	0937_ MW712 _20210421	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	15 Jul 2021	0937_MW712_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	16 Nov 2021	0937_MW712_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	17 Feb 2022	0937_MW712_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	31 May 2022	0937_MW712_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	25 Aug 2022	0937_MW712_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	29 Nov 2022	0937_MW712_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	15 Nov 2023	0937_MW712_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
MW714	20 Oct 2016	MW714	Normal	EM1612530	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93
	29 Nov 2019	0937_MW714_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	18 Mar 2020	0937_MW714_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	17 Jun 2020	0937_MW714_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
		0937_QC103_200617	Field_D	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
		0937_QC203_200617	Interlab_D	726765	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	09 Nov 2020	0937_MW714_201109	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07
	27 Jan 2021	0937_MW714_200127	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	20 Apr 2021	0937_ MW714 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	15 Jul 2021	0937_MW714_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	16 Nov 2021	0937_MW714_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	18 Feb 2022	0937_MW714_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	31 May 2022	0937_MW714_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10
	29 Aug 2022	0937_MW714_220829	Normal	EM2217000	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	29 Nov 2022	0937_MW714_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	15 Nov 2023	0937_MW714_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW715	20 Oct 2016	MW715	Normal	EM1612530	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	1.34	0.25	<0.05	2.36
	29 Nov 2019	0937_MW715_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	19 Mar 2020	0937_MW715_20200319	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	16 Jun 2020	0937_MW715_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	11 Nov 2020	0937_MW715_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
		0937_QC109_201111	Field_D	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC209_201111	Interlab_D	757178	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	01 Feb 2021	0937_MW715_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	19 Apr 2021	0937_ MW715 _20210419	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	03 Aug 2021	0937_MW715_210802	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	22 Nov 2021	0937_MW715_211122	Normal	EM2123477	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11
	15 Feb 2022	0937_MW715_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16
		0937_QC100_220215	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23
		0937_QC200_220215	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.2
	30 May 2022	0937_MW715_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	26 Aug 2022	0937_MW715_220826	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	29 Nov 2022	0937_MW715_221128	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	20 Nov 2023	0937_MW715_231120	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17
MW716	20 Oct 2016	MW716	Normal	EM1612530	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.6
	29 Nov 2019	0937_MW716_191129	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
	19 Mar 2020	0937_MW716_20200316	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	16 Jun 2020	0937_MW716_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	11 Nov 2020	0937_MW716_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	27 Jan 2021	0937_MW716_210127	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10
	19 Apr 2021	0937_ MW716 _20210419	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	03 Aug 2021	0937_MW716_210802	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2021	0937_MW716_211117	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	15 Feb 2022	0937_MW716_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	31 May 2022	0937_MW716_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	26 Aug 2022	0937_MW716_220826	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	29 Nov 2022	0937_MW716_221128	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	20 Nov 2023	0937_MW716_231120	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11
MW719	20 Oct 2016	MW719	Normal	EM1612530	<0.02	<0.02	<0.05	0.17	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	12,000
	25 Nov 2019	0937_MW719_191125	Normal	EM1920529	<0.50	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	3.70	<0.50	<0.50	13,800
	17 Mar 2020	0937_MW719_20200317	Normal	EM2004711	<5.00	<5.00	<12.5	<5.00	<12.5	<12.5	<12.5	<12.5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	16,200
	16 Jun 2020	0937_MW719_200616	Normal	EM2010514	<0.02	<0.02	<0.05	0.36	<0.05	<0.05	<0.05	<0.05	<0.02	0.02	<0.05	4.30	0.20	<0.05	12,500
	10 Nov 2020	0937_MW719_201110	Normal	EM2020050	<0.04	<0.04	<0.09	0.30	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	4.37	0.16	<0.05	11,400
	28 Jan 2021	0937_MW719_210128	Normal	EM2101229	<0.04	<0.04	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	4.03	0.17	<0.05	10,500
	22 Apr 2021	0937_ MW719 _20210422	Normal	EM2107085	<0.38	<0.38	<0.95	<0.38	<0.95	<0.95	<0.95	<0.95	<0.38	<0.38	<0.38	2.70	<0.38	<0.38	8,710
	13 Jul 2021	0937_MW719_210713	Normal	EM2113872-AB	<0.04	<0.04	<0.09	0.31	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	3.13	<0.05	<0.05	5,990
	15 Nov 2021	0937_MW719_211115	Normal	EM2123080	<0.04	<0.04	<0.09	0.18	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	4.85	0.07	<0.05	10,200
	22 Feb 2022	0937_MW719_220222	Normal	EM2203247	<0.35	<0.35	<0.88	<0.35	<0.88	<0.88	<0.88	<0.88	<0.35	<0.35	<0.35	3.61	<0.35	<0.35	11,200
		0937_QC222_220222	Interlab_D	866689	<0.01	<0.01	<0.01	0.23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	3.1	0.08	<0.01	14,498.19
	26 May 2022	0937_MW719_220526	Normal	EM2210316	<0.02	<0.02	<0.05	0.25	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.74	0.14	<0.05	2,870
	26 Aug 2022	0937_MW719_220826	Normal	EM2216476	<0.34	<0.34	<0.85	<0.34	<0.85	<0.85	<0.85	<0.85	<0.34	<0.34	<0.34	2.24	<0.34	<0.34	4,400
	24 Nov 2022	0937_MW719_221124	Normal	EM2223510	<0.34	<0.34	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.34	<0.34	<0.34	2.68	<0.34	<0.34	6,600
	17 Nov 2023	0937_MW719_231117	Normal	EM2320952	<0.36	<0.36	<0.89	0.38	<0.89	<0.89	<0.89	<0.89	<0.36	<0.36	<0.36	4.33	<0.36	<0.36	8,450

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW720	20 Oct 2016	MW720	Normal	EM1612530	<0.02	<0.02	<0.05	0.22	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3,100
	25 Nov 2019	0937_MW720_191125	Normal	EM1920529	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	943
	20 Mar 2020	0937_MW720_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	932
	16 Jun 2020	0937_MW720_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	916
	10 Nov 2020	0937_MW720_201110	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	779
	28 Jan 2021	0937_MW720_210128	Normal	EM2101229	<0.04	<0.04	<0.10	0.13	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	831
	22 Apr 2021	0937_ MW720 _20210422	Normal	EM2107085	<0.04	<0.04	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	771
	13 Jul 2021	0937_MW720_210713	Normal	EM2113872-AB	<0.03	<0.03	<0.09	0.39	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	0.09	<0.05	<0.05	8,330
	16 Nov 2021	0937_MW720_211116	Normal	EM2123080	<0.04	<0.04	<0.09	0.14	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	3,140
	17 Feb 2022	0937_MW720_220217	Normal	EM2202703	<0.02	<0.02	<0.05	0.41	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	9,450
	26 May 2022	0937_MW720_220526	Normal	EM2210316	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2,230
	25 Aug 2022	0937_MW720_220825	Normal	EM2216476	<0.03	<0.03	<0.08	0.05	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,540
	24 Nov 2022	0937_MW720_221124	Normal	EM2223510	<0.03	<0.03	<0.08	0.05	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,340
	17 Nov 2023	0937_MW720_231117	Normal	EM2320952	<0.04	<0.04	<0.09	0.08	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,880
MW724	18 Oct 2016	MW724	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.84
	20 Nov 2019	0937_MW724_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.87
	16 Jun 2020	0937_MW724_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.17
	28 Jan 2021	0937_MW724_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.69
	13 Jul 2021	0937_MW724_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.86
	15 Feb 2022	0937_MW724_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	18
	23 Aug 2022	0937_MW724_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.88
	16 Nov 2023	0937_MW724_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.1
MW725	17 Oct 2016	MW725	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	117
	20 Nov 2019	0937_MW725_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	28.2
	17 Mar 2020	0937_MW725_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	38.0
	16 Jun 2020	0937_MW725_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	36.6
	10 Nov 2020	0937_MW725_201110	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	28.9
		0937_QC101_201110	Field_D	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.2
		0937_QC201_201110	Interlab_D	757178	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	39.91
	28 Jan 2021	0937_MW725_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	25.1
		0937_QC100_210128	Field_D	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.1
		0937_QC200_210128	Interlab_D	770470	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.12	<0.01	<0.01	44.38
	22 Apr 2021	0937_ MW725 _20210422	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.8
	13 Jul 2021	0937_MW725_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.9
	12 Nov 2021	0937_MW725_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	30.5
	15 Feb 2022	0937_MW725_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	36.5
		0937_QC107_220215	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.3
		0937_QC207_220215	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	38.67
	26 May 2022	0937_MW725_2205246	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.8
	23 Aug 2022	0937_MW725_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.7
	22 Nov 2022	0937_MW725_221122	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.1
	15 Nov 2023	0937_MW725_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.7

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW726	18 Oct 2016	MW726	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	143
	20 Nov 2019	0937_MW726_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	175
	17 Mar 2020	0937_MW726_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	247
	16 Jun 2020	0937_MW726_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	193
	10 Nov 2020	0937_MW726_201110	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	105
	28 Jan 2021	0937_MW726_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	189
	26 Apr 2021	0937_ MW726 _20210426	Normal	EM2107858	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	116
	13 Jul 2021	0937_MW726_210713	Normal	EM2113872-AB	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	105
		0937_QC102_210713	Field_D	EM2113872-AB	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	117
		0937_QC202_210713	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	195.51
	15 Nov 2021	0937_MW726_211115	Normal	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	188
	15 Feb 2022	0937_MW726_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	387
	25 May 2022	0937_MW726_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	353
		0937_QC104_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	341
		0937_QC204_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	250.91
	23 Aug 2022	0937_MW726_220823	Normal	EM2216476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	268
	24 Nov 2022	0937_MW726_221124	Normal	EM2223510	<0.03	<0.03	<0.08	<0.03	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	240
	16 Nov 2023	0937_MW726_231116	Normal	EM2320952	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	227
MW728	17 Oct 2016	MW728	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.6
	20 Nov 2019	0937_MW728_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.88
	16 Jun 2020	0937_MW728_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.36
	28 Jan 2021	0937_MW728_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.02
	13 Jul 2021	0937_MW728_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.80
		0937_QC104_210713	Field_D	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.89
		0937_QC204_210713	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.48
	15 Feb 2022	0937_MW728_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.89
	23 Aug 2022	0937_MW728_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.20
		0937_QC100_220823	Field_D	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.12
		0937_QC200_220823	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.68
	15 Nov 2023	0937_MW728_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.42
MW729	18 Oct 2016	MW729	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	25 Nov 2019	0937_MW729_191125	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.19
	17 Mar 2020	0937_MW729_20200217	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62
		0937_QC100_20200317	Field_D	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32
		0937_QC200_20200317	Interlab_D	711148	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.29
	16 Jun 2020	0937_MW729_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29
	10 Nov 2020	0937_MW729_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.79
	28 Jan 2021	0937_MW729_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59
	28 Apr 2021	0937_MW729_20210428	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.91
	14 Jul 2021	0937_MW729_210714	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.18
	16 Nov 2021	0937_MW729_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.2
	24 Feb 2022	0937_MW729_220224	Normal	EM2203247	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.1
	26 May 2022	0937_MW729_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.9
	25 Aug 2022	0937_MW729_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.91
	24 Nov 2022	0937_MW729_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.7
	17 Nov 2023	0937_MW729_231117	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.6

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW730	**19 Oct 2016**	**MW730**	**Normal**	**EM1612530**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.64
	20 Nov 2019	**0937_MW730_191120**	**Normal**	**EM1920039**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.07
	18 Jun 2020	**0937_MW730_200618**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.32
	12 Nov 2020	**0937_MW730_201111**	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.52
	29 Jan 2021	**0937_MW730_210129**	**Normal**	**EM2101229**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.80
	27 Apr 2021	**0937_ MW730 _20210426**	**Normal**	**EM2107858**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.92
	15 Jul 2021	**0937_MW730_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.22
	16 Nov 2021	**0937_MW730_211116**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.14
	17 Feb 2022	**0937_MW730_220217**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.56
	26 May 2022	**0937_MW730_220526**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.76
	25 Aug 2022	**0937_MW730_220825**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.40
	24 Nov 2022	**0937_MW730_221124**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.97
	17 Nov 2023	**0937_MW730_231117**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.48
MW733	**18 Oct 2016**	**MW733**	**Normal**	**EM1612450**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.38
	20 Nov 2019	**0937_MW733_191120**	**Normal**	**EM1920034**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.53
	17 Mar 2020	**0937_MW733_20200317**	**Normal**	**EM2004711**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.57
	16 Jun 2020	**0937_MW733_200616**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.51
	10 Nov 2020	**0936_QC100_201110**	**Field_D**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.85
		0937_MW733_201110	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.92
		0937_QC200_01110	**Interlab_D**	**757178**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.5
	28 Jan 2021	**0937_MW733_210128**	**Normal**	**EM2101229**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.87
		0937_QC102_210128	**Field_D**	**EM2101229**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.02
		0937_QC202_210128	**Interlab_D**	**770470**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.54
	26 Apr 2021	**0937_ MW733 _20210426**	**Normal**	**EM2107858**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.89
	13 Jul 2021	**0937_QC206_210713**	**Interlab_D**	**811260**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	3.77
	14 Jul 2021	**0947_QC106_210714**	**Field_D**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.57
	15 Jul 2021	**0937_MW733_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.45
	12 Nov 2021	**0937_MW733_211112**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.09
	15 Feb 2022	**0937_MW733_220215**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.59
		0937_QC104_220215	**Field_D**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.39
		0937_QC204_220215	**Interlab_D**	**864735**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4.11
	25 May 2022	**0937_MW733_220525**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.04
	23 Aug 2022	**0937_MW733_220823**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.24
	22 Nov 2022	**0937_QC202_221122**	**Interlab_D**	**945182**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	3.8
	23 Nov 2022	**0937_MW733_221122**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.05
	23 Nov 2023	**0937_MW733_231123**	**Normal**	**EM2320952**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.15

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW734	18 Oct 2016	MW734	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	289
	20 Nov 2019	0937_MW734_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	215
	17 Mar 2020	0937_MW734_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	237
	16 Jun 2020	0937_MW734_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	215
	10 Nov 2020	0937_MW734_201110	Normal	EM2020050	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	201
	28 Jan 2021	0937_MW734_210128	Normal	EM2101229	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	134
		0937_QC104_210128	Field_D	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	147
		0937_QC204_210128	Interlab_D	770470	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	228.79
	26 Apr 2021	0937_ MW734 _2021042	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	101
	13 Jul 2021	0937_MW734_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	151
		0937_QC103_210713	Field_D	EM2113872-AB	<0.04	<0.04	<0.11	<0.04	<0.11	<0.11	<0.11	<0.11	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	140
		0937_QC203_210713	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	228.77
	15 Nov 2021	0937_MW734_211115	Normal	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	280
		0937_QC107_211115	Field_D	EM2123080	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	306
		0937_QC207_211115	Interlab_D	842318	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	340.88
	15 Feb 2022	0937_MW734_220215	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	425
	25 May 2022	0937_MW734_220524	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	525
	23 Aug 2022	0937_MW734_220823	Normal	EM2216476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	256
		0937_QC101_220823	Field_D	EM2216476	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	252
		0937_QC201_220823	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	230.91
	22 Nov 2022	0937_MW734_221122	Normal	EM2223510	<0.03	<0.03	<0.08	<0.03	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	235
	25 Nov 2022	0937_QC200_221125	Interlab_D	945182	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	346.45
	16 Nov 2023	0937_MW734_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	184
		0937_QC110_231116	Field_D	EM2320952	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	192
		0937_QC210_231116	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	221.44
MW735	18 Oct 2016	MW735	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.25
	17 Jun 2020	0937_MW735_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77
	11 Nov 2020	0937_MW735_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17
	01 Feb 2021	0937_MW735_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10
	20 Apr 2021	0937_ MW735 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	04 Aug 2021	0937_MW735_210804	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	16 Nov 2021	0937_MW735_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	16 Feb 2022	0937_MW735_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.3
	26 May 2022	0937_MW735_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	25 Aug 2022	0937_MW735_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Nov 2022	0937_MW735_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC208_221123	Interlab_D	945182	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	15 Nov 2023	0937_MW735_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW737	19 Oct 2016	MW737	Normal	EM1612530	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	20 Nov 2019	0937_MW737_191120	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.37
	16 Jun 2020	0937_MW737_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	28 Jan 2021	0937_MW737_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	13 Jul 2021	0937_MW737_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	15 Nov 2021	0937_MW737_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61
		0937_QC108_211115	Field_D	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
		0937_QC208_211115	Interlab_D	842318	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.49
	17 Feb 2022	0937_MW737_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81
	25 May 2022	0937_MW737_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.17	<0.05	<0.05	1.42
		0937_QC101_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	1.49
		0937_QC201_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.10	<0.01	<0.01	1.14
	23 Aug 2022	0937_MW737_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	1.33
	23 Nov 2022	0937_MW737_221122	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.28
	16 Nov 2023	0937_MW737_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.50
MW738	18 Oct 2016	MW738	Normal	EM1612450	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
																			683
	25 Nov 2019	0937_MW738_191125	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	88.1
	17 Mar 2020	0937_MW738_20200317	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	86.7
	16 Jun 2020	0937_MW738_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	76.8
	10 Nov 2020	0937_MW738_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	46.4
	28 Jan 2021	0937_MW738_210128	Normal	EM2101229	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	54.6
	28 Apr 2021	0937_ MW738 _20210428	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.1
	14 Jul 2021	0937_MW738_210714	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	84.9
	16 Nov 2021	0937_MW738_211116	Normal	EM2123080	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	84.4
	18 Feb 2022	0937_MW738_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	189
	26 May 2022	0937_MW738_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	427
	25 Aug 2022	0937_MW738_220825	Normal	EM2216476	<0.03	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	346
	24 Nov 2022	0937_MW738_221124	Normal	EM2223510	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	253
	17 Nov 2023	0937_MW738_231117	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	325
MW739	28 Oct 2016	MW739	Normal	EM1612912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.49
	28 Nov 2019	0937_MW739_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.73
	18 Mar 2020	0937_MW739_20200318	Normal	EM2004711	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.4
	17 Jun 2020	0937_MW739_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.7
	09 Nov 2020	0937_MW739_201109	Normal	EM2020050	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	14.5
	29 Jan 2021	0937_MW739_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.9
	20 Apr 2021	0937_ MW739_20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.0
	15 Jul 2021	0937_MW739_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.2
	17 Nov 2021	0937_MW739_211117	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.5
	17 Feb 2022	0937_MW739_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	25.3
	31 May 2022	0937_MW739_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	31.2
	25 Aug 2022	0937_MW739_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.6
	23 Nov 2022	0937_MW739_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.1
		0937_QC207_221123	Interlab_D	945182	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	19.67
	15 Nov 2023	0937_MW739_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.3

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW740	28 Oct 2016	MW740	Normal	EM1612912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.53
	28 Nov 2019	0937_MW740_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.74	<0.05	<0.05	9.98
	18 Mar 2020	0937_MW740_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.57	<0.05	<0.05	12.8
	17 Jun 2020	0937_MW740_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.50	<0.05	<0.05	13.2
	11 Nov 2020	0937_MW740_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.03	<0.05	<0.05	8.61
	01 Feb 2021	0937_MW740_210101	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.88	<0.05	<0.05	7.80
	20 Apr 2021	0937_ MW740 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.59	<0.05	<0.05	6.30
	05 Aug 2021	0937_MW740_210805	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.60	<0.05	<0.05	7.10
	16 Nov 2021	0937_MW740_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.71	<0.05	<0.05	6.91
	17 Feb 2022	0937_MW740_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.74	<0.05	<0.05	8.05
	31 May 2022	0937_MW740_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.11	<0.05	<0.05	8.62
	25 Aug 2022	0937_MW740_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.74	<0.05	<0.05	6.90
	29 Nov 2022	0937_MW740_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.80	<0.05	<0.05	5.91
	15 Nov 2023	0937_MW740_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.61	<0.05	<0.05	6.22
		0937_QC103_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.52	<0.05	<0.05	6.51
		0937_QC203_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.50	<0.01	<0.01	6.22
MW741	28 Oct 2016	MW741	Normal	EM1612912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		QCA387	Field_D	EM1612912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		QCB388	Interlab_D	521623	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	27 Nov 2019	0937_MW741_191127	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Mar 2020	0937_MW741_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC101_20200318	Field_D	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC201_20200318	Interlab_D	711148	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	17 Jun 2020	0937_MW741_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC106_200617	Field_D	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC206_200617	Interlab_D	726765	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	11 Nov 2020	0937_MW741_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	01 Feb 2021	0937_MW741_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	21 Apr 2021	0937_ MW741 _20210421	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Aug 2021	0937_MW741_210804	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2021	0937_MW741_211117	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Feb 2022	0937_MW741_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	31 May 2022	0937_MW741_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	25 Aug 2022	0937_MW741_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
		0937_QC111_220825	Field_D	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22
		0937_QC211_220825	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.39
	29 Nov 2022	0937_MW741_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54
	15 Nov 2023	0937_MW741_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20
POT027	31 May 2016	P001-OEW001	Normal	EM1606389															
	07 Jun 2017	P001_OEW001	Normal	EM1707601	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	0937_POT027_191103	Normal	EM1920781	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	19 Jun 2020	0937_POT027_200619	Normal	EM2010389	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Feb 2021	0937_POT027_210204	Normal	EM2101561	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Feb 2022	0937_POT027_220223	Normal	EM2203196	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Aug 2022	0937_POT027_220830	Normal	EM2216995	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Nov 2023	0937_POT027_231123	Normal	EM2320911	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01

Table B2a - PFAS Groundwater Analytical Results

					Perfluorocarbons												
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
POT034	**07 Jun 2017**	**P028_OEW001**	**Normal**	**EM1707594**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	**0937_POT034_191203**	**Normal**	**EM1920782**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	18 Jun 2020	**0937_POT034_200618**	**Normal**	**EM2010388**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_POT034_210103**	**Normal**	**EM2101567**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	05 Aug 2021	**0937_POT034_210805**	**Normal**	**EM2115487**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	24 Feb 2022	**0937_POT034_220224**	**Normal**	**EM2203202**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Aug 2022	**0937_POT034_220830**	**Normal**	**EM2216990**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	16 Nov 2023	**0937_POT034_231116**	**Normal**	**EM2320916**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
POT042	**01 Jun 2016**	**P003-OEW002**	**Normal**	**EM1606482**															
	08 Jun 2017	**P003_OEW002**	**Normal**	**EM1707600**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	03 Dec 2019	**0937_POT042_191203**	**Normal**	**EM1920790**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	19 Mar 2020	**0937_POT042_20200319**	**Normal**	**EM2004707**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	18 Jun 2020	**0937_POT042_20200618**	**Normal**	**EM2010382**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	12 Nov 2020	**0937_POT042_201112**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	03 Feb 2021	**0937_POT042_210203**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	29 Apr 2021	**0937_POT042_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	05 Aug 2021	**0937_POT042_210805**	**Normal**	**EM2115478**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
	18 Nov 2021	**0937_POT042_211118**	**Normal**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	22 Feb 2022	**0937_POT042_220222**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	30 May 2022	**0937_POT042_220529**	**Normal**	**EM2210255**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	31 Aug 2022	**0937_POT042_220831**	**Normal**	**EM2216994-AD**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	21 Nov 2023	**0937_POT042_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.46
POT050	**27 Jun 2016**	**P004-OEW003**	**Normal**	**EM1607524**															
	07 Jun 2017	**P004_OEW003**	**Normal**	**EM1707598**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	**0937_POT050_191203**	**Normal**	**EM1920783**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Jun 2020	**0937_POT050_200618**	**Normal**	**EM2010383**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_POT050_210203**	**Normal**	**EM2101566**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	04 Aug 2021	**0937_POT050_210804**	**Normal**	**EM2115482**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Feb 2022	**0937_POT050_220223**	**Normal**	**EM2203198**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Aug 2022	**0937_POT050_220830**	**Normal**	**EM2216993**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	16 Nov 2023	**0937_POT050_231116**	**Normal**	**EM2320913**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
POT051	**01 Jun 2016**	**P003-OEW004**	**Normal**	**EM1606482**															
	08 Jun 2017	**P003_OEW004**	**Normal**	**EM1707600**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Dec 2019	**0937_POT051_191203**	**Normal**	**EM1920790**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	19 Mar 2020	**0937_POT051_20200319**	**Normal**	**EM2004707**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Jun 2020	**0937_POT051_200618**	**Normal**	**EM2010382**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	12 Nov 2020	**0937_POT051_201112**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_POT051_210203**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	29 Apr 2021	**0937_POT051_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	05 Aug 2021	**0937_POT051_210806**	**Normal**	**EM2115478**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	18 Nov 2021	**0937_POT051_211118**	**Normal**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Feb 2022	**0937_POT051_220223**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	31 Aug 2022	**0937_POT051_220831**	**Normal**	**EM2216994-AD**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	21 Nov 2023	**0937_POT051_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW001	01 Jun 2016	OSW001	Normal	EM1606490	0.09	<0.01	0.19	0.03	0.03	0.1	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	26 Oct 2016	OSW001	Normal	EM1612997	2	0.003	2.227	0.02	0.016	0.227	0.018	<0.002	<0.01	0.003	0.024	0.003	<0.002	<0.002	<0.002
	03 Dec 2019	0937_SW001_191203	Normal	EM1920790	0.13	<0.01	0.23	0.02	0.02	0.10	<0.02	<0.02	<0.1	0.04	0.21	<0.02	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW001_20200320	Normal	EM2004707	0.89	0.01	1.11	0.03	0.05	0.22	<0.02	<0.02	<0.1	0.05	0.28	0.02	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW001_20200623	Normal	EM2010693	0.11	<0.01	0.26	0.02	0.02	0.15	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW001_201113	Normal	EM2020041	0.37	<0.01	0.53	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_SW001_210204	Normal	EM2101558	0.84	0.02	1.11	0.10	0.04	0.27	<0.02	<0.02	<0.1	0.04	0.22	0.03	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW001_20210429	Normal	EM2107856	0.41	0.01	0.69	0.04	0.04	0.28	<0.02	<0.02	<0.1	0.04	0.27	0.03	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW001_210806	Normal	EM2115478	0.13	<0.01	0.16	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Feb 2022	0937_SW001_220224	Normal	EM2203197	0.42	<0.01	0.56	0.03	<0.02	0.14	<0.02	<0.02	<0.1	0.03	0.06	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_SW001_220529	Normal	EM2210255	0.42	0.01	0.61	0.02	0.02	0.19	<0.02	<0.02	<0.1	0.04	0.11	<0.02	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW001_220901	Normal	EM2216994-AD	0.28	<0.01	0.43	<0.02	0.02	0.15	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW001_231121	Normal	EM2320912	0.25	<0.01	0.29	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW002	01 Jun 2016	OSW002	Normal	EM1606490	1.74	<0.01	2.14	0.06	0.05	0.4	0.03	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	26 Oct 2016	OSW002	Normal	EM1612984	0.644	0.009	1.01	0.052	0.042	0.366	0.023	<0.002	<0.01	0.009	0.04	0.004	<0.002	<0.002	<0.002
		QCA409	Field_D	EM1612868	0.772	0.016	1.316	0.07	0.051	0.544	0.024	<0.002	<0.01	0.009	0.066	0.006	<0.002	<0.002	<0.002
		QCB410	Interlab_D	521935	1.1	0.02	1.42	0.04		0.32		<0.01	<0.05	0.02	0.15	0.01	<0.01	<0.01	<0.01
	28 Nov 2019	0937_SW02_191128	Normal	EM1920529-AC	1.31	0.02	1.73	0.05	0.04	0.42	0.04	<0.02	<0.1	0.16	0.24	0.08	<0.02	<0.02	<0.02
	19 Mar 2020	0937_SW002_20200319	Normal	EM2004707	1.62	0.03	2.10	0.05	0.08	0.48	0.04	<0.02	<0.1	0.11	0.20	0.06	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW002_20200623	Normal	EM2010693	0.74	0.02	1.09	0.04	0.04	0.35	<0.02	<0.02	<0.1	0.08	0.21	0.04	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW002_201112	Normal	EM2020041	2.51	0.02	2.85	0.03	0.03	0.34	0.02	<0.02	<0.1	0.05	0.18	0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW002_210202	Normal	EM2101558	1.39	0.03	1.86	0.06	0.04	0.47	0.04	<0.02	<0.1	0.06	0.12	0.04	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW002_20210429	Normal	EM2107856	0.76	0.02	1.20	0.14	0.05	0.44	<0.02	<0.02	<0.1	0.05	0.12	0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW002_210805	Normal	EM2115478	0.76	<0.01	0.81	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_QC104_211111	Field_D	EM2123001	0.34	<0.01	0.38	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC204_211111	Interlab_D	847843	0.67	<0.01	0.72	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
		0937_SW002_211111	Normal	EM2123001	0.43	<0.01	0.47	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW002_2220223	Normal	EM2203197	3.22	0.17	6.78	0.52	0.56	3.56	0.19	<0.02	0.2	0.56	1.03	0.19	<0.02	<0.02	<0.02
	28 May 2022	0937_SW002_220528	Normal	EM2210255	0.92	0.02	1.19	0.03	0.03	0.27	<0.02	<0.02	<0.1	0.05	0.11	0.03	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW002_220901	Normal	EM2216994-AD	0.62	0.01	0.8	0.04	0.03	0.18	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW002_231121	Normal	EM2320912	0.43	<0.01	0.50	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
SW004	26 Oct 2016	OSW004	Normal	EM1612984	0.314	0.004	0.466	0.022	0.02	0.152	0.011	<0.002	<0.01	0.009	0.042	0.003	<0.002	<0.002	<0.002
	28 Nov 2019	0937_SW04_191128	Normal	EM1920529-AC	0.88	0.01	1.08	0.03	0.03	0.2	<0.02	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_SW004_20200319	Normal	EM2004707	1.48	0.02	1.86	0.03	0.05	0.38	0.02	<0.02	<0.1	0.11	0.17	0.04	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW004_200623	Normal	EM2010693	0.42	<0.01	0.57	0.02	0.02	0.15	<0.02	<0.02	<0.1	0.04	0.17	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW004_201112	Normal	EM2020041	2.59	<0.01	2.80	0.02	0.02	0.21	<0.02	<0.02	<0.1	0.03	0.14	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW004_210202	Normal	EM2101558	0.78	0.02	1.08	0.04	0.03	0.30	<0.02	<0.02	<0.1	0.04	0.22	0.03	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW004_20210429	Normal	EM2107856	2.51	0.04	3.15	0.08	0.06	0.64	0.04	<0.02	<0.1	0.06	0.15	0.03	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW004_210805	Normal	EM2115478	0.61	<0.01	0.66	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_QC103_211111	Field_D	EM2123001	0.40	<0.01	0.45	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC203_211111	Interlab_D	847843	0.72	<0.01	0.8	<0.01	<0.01	0.08	<0.01	<0.01	<0.05	0.01	0.03	<0.01	<0.01	<0.01	<0.01
		0937_SW004_211111	Normal	EM2123001	0.35	<0.01	0.40	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW004_220223	Normal	EM2203197	0.76	0.02	1.02	0.03	0.03	0.26	<0.02	<0.02	<0.1	0.06	0.1	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_SW004_220528	Normal	EM2210255	0.79	0.02	1.15	0.05	0.04	0.36	0.02	<0.02	<0.1	0.07	0.14	0.03	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW004_220901	Normal	EM2216994-AD	0.42	0.01	0.59	0.03	0.02	0.17	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW004_231121	Normal	EM2320912	1.00	0.03	1.49	0.08	0.07	0.49	0.03	<0.02	<0.1	0.04	0.12	0.03	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW011	26 Oct 2016	OSW011	Normal	EM1612993	0.282	0.005	0.472	0.021	0.017	0.19	0.006	<0.002	<0.01	0.006	0.05	0.004	<0.002	<0.002	<0.002
	04 Dec 2019	0937_QC110_191204	Field_D	EM1920784	0.17	<0.01	0.27	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.11	<0.02	<0.02	<0.02	<0.02
		0937_QC210_191204	Interlab_D	EM1920784	0.13	<0.01	0.23	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	0.03	0.13	<0.02	<0.02	<0.02	<0.02
		0937_SW011_191204	Normal	EM1920784	0.15	<0.01	0.25	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.12	<0.02	<0.02	<0.02	<0.02
	25 Mar 2020	0937_SW011_20200325	Normal	EM2005034	0.13	<0.01	0.29	0.02	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	0937_SW011_20200621	Normal	EM2010690	0.15	<0.01	0.27	0.02	<0.02	0.12	<0.02	<0.02	<0.1	0.03	0.16	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW011_201113	Normal	EM2020047	0.13	<0.01	0.21	0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW011_210202	Normal	EM2101562	0.15	<0.01	0.32	0.02	0.02	0.17	<0.02	<0.02	<0.1	0.03	0.18	0.02	<0.02	<0.02	<0.02
	30 Apr 2021	0937_SW011_20210430	Normal	EM2107855	0.18	<0.01	0.37	0.03	<0.02	0.19	<0.02	<0.02	<0.1	0.03	0.19	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW011_210806	Normal	EM2115483	0.10	<0.01	0.13	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	10 Nov 2021	0937_SW011_211110	Normal	EM2123004	0.06	<0.01	0.08	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW011_220223	Normal	EM2203194	0.13	<0.01	0.19	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	27 May 2022	0937_SW011_220527	Normal	EM2210252	0.13	<0.01	0.21	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	0937_SW011_231122	Normal	EM2320910	0.07	<0.01	0.10	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW012	26 Oct 2016	OSW012	Normal	EM1612988	0.011	<0.002	0.011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	04 Dec 2019	0937_SW012_191204	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Mar 2020	0937_SW012_20200325	Normal	EM2005032	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	0937_SW012_20200623	Normal	EM2010690	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW012_201113	Normal	EM2020052	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_SW012_210202	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Apr 2021	0937_SW012_20210430	Normal	EM2107805	0.02	<0.01	0.05	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW012_210806	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	10 Nov 2021	0937_SW012_211110	Normal	EM2123004	0.03	<0.01	0.04	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW012_220223	Normal	EM2203192	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_SW012_220527	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	0937_SW012_231122	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW014	26 Oct 2016	OSW014	Normal	EM1612993	0.072	<0.002	0.14	0.008	0.006	0.068	<0.002	<0.002	<0.01	0.003	0.022	<0.002	<0.002	<0.002	<0.002
	04 Dec 2019	0937_SW014_191204	Normal	EM1920787	0.05	<0.01	0.14	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02
	25 Mar 2020	0937_QC106_20200325	Field_D	EM2005034	0.03	<0.01	0.07	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
		0937_QC206_20200325	Interlab_D	710361	0.05	<0.01	0.09	<0.01	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	<0.01	<0.01	<0.01
		0937_SW014_20200325	Normal	EM2005034	0.03	<0.01	0.08	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	0937_SW014_20200623	Normal	EM2010690	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW014_201113	Normal	EM2020047	0.06	<0.01	0.12	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW014_210202	Normal	EM2101562	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Apr 2021	0937_SW014_20210430	Normal	EM2107855	0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW014_210806	Normal	EM2115483	0.11	<0.01	0.13	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	10 Nov 2021	0937_SW014_211110	Normal	EM2123004	0.05	<0.01	0.07	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW014_220223	Normal	EM2203194	0.10	<0.01	0.15	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	27 May 2022	0937_SW014_220527	Normal	EM2210252	0.16	<0.01	0.24	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	0937_SW014_231122	Normal	EM2320910	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW015	26 Oct 2016	OSW015	Normal	EM1612993	0.148	0.004	0.313	0.02	0.016	0.165	0.006	<0.002	<0.01	0.007	0.052	0.004	<0.002	<0.002	<0.002
	04 Dec 2019	0937_SW015_191204	Normal	EM1920784	0.28	0.02	0.83	0.04	0.03	0.55	<0.02	<0.02	<0.1	0.03	0.22	0.02	<0.02	<0.02	<0.02
	25 Mar 2020	0937_SW015_20200325	Normal	EM2005034	0.12	<0.01	0.28	0.02	0.03	0.16	<0.02	<0.02	<0.1	0.03	0.21	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	0937_SW015_200623	Normal	EM2010690	0.04	<0.01	0.14	0.02	<0.02	0.10	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW015_201113	Normal	EM2020047	0.07	<0.01	0.15	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW015_210202	Normal	EM2101562	0.07	<0.01	0.23	0.03	0.02	0.16	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02
	30 Apr 2021	0937_SW015_20210430	Normal	EM2107855	0.10	<0.01	0.29	0.03	0.03	0.19	<0.02	<0.02	<0.1	0.04	0.21	0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW015_220223	Normal	EM2203194	0.09	<0.01	0.15	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	27 May 2022	0937_SW015_220527	Normal	EM2210252	0.07	<0.01	0.15	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	0937_SW015_231122	Normal	EM2320910	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW016	**26 Oct 2016**	**OSW016**	**Normal**	**EM1612993**	0.119	0.004	0.286	0.019	0.016	0.167	0.006	<0.002	<0.01	0.006	0.046	0.004	<0.002	<0.002	<0.002
	25 Mar 2020	**0937_SW016_20200325**	**Normal**	**EM2005034**	0.23	<0.01	0.39	0.02	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.20	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	**0937_SW016_20200622**	**Normal**	**EM2010690**	0.16	<0.01	0.27	0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	**0937_SW016_201113**	**Normal**	**EM2020047**	0.20	0.03	0.83	0.12	0.10	0.63	0.02	<0.02	<0.1	0.04	0.25	0.03	<0.02	<0.02	<0.02
	02 Feb 2021	**0937_SW016_210202**	**Normal**	**EM2101562**	0.15	<0.01	0.31	0.04	0.02	0.16	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02
	30 Apr 2021	**0937_SW016_20210430**	**Normal**	**EM2107855**	0.13	<0.01	0.29	0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.03	0.21	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	**0937_SW016_231122**	**Normal**	**EM2320910**	0.04	<0.01	0.07	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW019	**28 Oct 2016**	**OSW019**	**Normal**	**EM1612987**	0.053	<0.002	0.083	0.004	0.004	0.03	<0.002	<0.002	<0.01	<0.002	0.007	<0.002	<0.002	<0.002	<0.002
	06 Dec 2016	**OSW019**	**Normal**	**EM1614830**	0.066	<0.002	0.085	0.011	0.003	0.019	<0.002	<0.002	<0.01	<0.002	0.009	<0.002	<0.002	<0.002	<0.002
	03 Dec 2019	**0937_SW019_191203**	**Normal**	**EM1920780**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Mar 2020	**0937_SW019_20200316**	**Normal**	**EM2004774**	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	**0937_SW019_200618**	**Normal**	**EM2010385**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	**0937_SW019_201112**	**Normal**	**EM2020045**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	**0937_SW019_210203**	**Normal**	**EM2101568**	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.2	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	21 Apr 2021	**0937_SW019_20210421**	**Normal**	**EM2107090**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	**0937_SW019_210804**	**Normal**	**EM2115485**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	**0937_SW019_211111**	**Normal**	**EM2123008**	0.09	<0.01	0.11	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	**0937_SW019_220222**	**Normal**	**EM2203193**	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 May 2022	**0937_SW019_220529**	**Normal**	**EM2210260**	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	**0937_SW019_220830**	**Normal**	**EM2216989**	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	**0937_SW019_221130**	**Normal**	**EM2223922**	0.05	<0.01	0.05	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	**0937_SW019_231121**	**Normal**	**EM2320917**	0.03	<0.01	0.03	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW030	**26 Oct 2016**	**OSW030**	**Normal**	**EM1612981**	0.138	0.006	0.348	0.026	0.019	0.21	0.007	<0.002	<0.01	0.006	0.053	0.004	<0.002	<0.002	<0.002
	04 Dec 2019	**0937_SW030_191204**	**Normal**	**EM1920788**	0.57	<0.01	0.77	0.03	0.03	0.20	<0.02	<0.02	<0.1	0.04	0.23	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	**0937_SW030_20200319**	**Normal**	**EM2004716**	0.739	0.014	0.973	0.043	0.034	0.234	0.025	0.003	0.02	0.037	0.208	0.030	<0.002	<0.002	<0.002
	19 Jun 2020	**0937_QC109_200619**	**Field_D**	**EM2010383**	0.42	<0.01	0.66	0.03	0.03	0.24	<0.02	<0.02	<0.1	0.04	0.24	0.03	<0.02	<0.02	<0.02
		0937_QC209_200619	**Interlab_D**	**726765**	0.34	<0.01	0.49	0.02	0.02	0.15	<0.01	<0.01	<0.05	0.03	0.16	0.02	<0.01	<0.01	<0.01
		0937_SW030_200619	**Normal**	**EM2010383**	0.38	<0.01	0.64	0.03	0.04	0.26	<0.02	<0.02	<0.1	0.05	0.24	0.02	<0.02	<0.02	<0.02
	12 Nov 2020	**0937_SW030_201112**	**Normal**	**EM2020042**	1.49	<0.01	1.64	0.02	<0.02	0.15	<0.02	<0.02	<0.1	<0.02	0.11	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	**0937_SW030_210202**	**Normal**	**EM2101566**	0.69	0.01	0.89	0.02	<0.02	0.20	<0.02	<0.02	<0.1	0.03	0.18	0.02	<0.02	<0.02	<0.02
	29 Apr 2021	**0937_SW030_20210429**	**Normal**	**EM2107807**	0.54	<0.01	0.72	0.09	0.03	0.18	<0.02	<0.02	<0.1	0.03	0.20	0.02	<0.02	<0.02	<0.02
	05 Aug 2021	**0937_SW030_210805**	**Normal**	**EM2115482**	0.06	<0.01	0.09	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	**0937_SW030_211111**	**Normal**	**EM2123005**	0.24	<0.01	0.27	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	**0937_SW030_220223**	**Normal**	**EM2203198**	0.54	<0.01	0.64	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02
	29 May 2022	**0937_SW030_220529**	**Normal**	**EM2210257**	0.24	<0.01	0.33	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	02 Sep 2022	**0937_SW030_220902**	**Normal**	**EM2216993**	0.63	0.01	0.82	0.03	0.02	0.19	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	**0937_SW030_221130**	**Normal**	**EM2223928**	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW031	**26 Oct 2016**	**OSW031**	**Normal**	**EM1612982**	0.128	0.003	0.293	0.024	0.017	0.165	0.005	<0.002	<0.01	0.007	0.059	0.004	<0.002	<0.002	<0.002
	28 Nov 2019	**0937_SW031_191128**	**Normal**	**EM1920529**	0.04	<0.01	0.07	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Mar 2020	**0937_SW031_20200320**	**Normal**	**EM2004718**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Jun 2020	**0937_SW031_200623**	**Normal**	**EM2010696**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	**0937_SW031_201113**	**Normal**	**EM2020044**	0.06	<0.01	0.10	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	**0937_SW031_210202**	**Normal**	**EM2101565**	0.10	<0.02	0.26	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02
	29 Apr 2021	**0937_SW031_20210429**	**Normal**	**EM2107809**	0.07	<0.01	0.26	0.08	0.03	0.19	<0.02	<0.02	<0.1	0.04	0.21	0.02	<0.02	<0.02	<0.02
	23 Nov 2023	**0937_SW031_231123**	**Normal**	**EM2320915**	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW032	26 Oct 2016	OSW032	Normal	EM1612982	0.075	<0.002	0.135	0.013	0.006	0.06	<0.002	<0.002	<0.01	0.003	0.018	<0.002	<0.002	<0.002	<0.002
		QCA417	Field_D	EM1612868	0.085	<0.002	0.144	0.014	0.007	0.059	0.002	<0.002	<0.01	<0.002	0.017	<0.002	<0.002	<0.002	<0.002
		QCB418	Interlab_D	521935	0.11	<0.01	0.14	<0.01		0.03		<0.01	<0.05	<0.01	0.04	<0.01	<0.01	<0.01	<0.01
	28 Nov 2019	0931_SW032_191128	Normal	EM1920529	0.08	<0.01	0.19	0.02	0.02	0.11	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW032_20200320	Normal	EM2004718	0.20	<0.01	0.30	0.02	0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW032_200322	Normal	EM2010696	0.02	<0.01	0.05	0.03	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW032_201113	Normal	EM2020044	0.13	<0.01	0.19	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW032_210202	Normal	EM2101565	0.42	0.01	0.64	0.03	<0.02	0.22	<0.02	<0.02	<0.1	0.04	0.20	0.02	<0.02	<0.02	<0.02
	04 May 2021	0937_SW032_20210504	Normal	EM2108092	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW032_210806	Normal	EM2115477	0.12	<0.01	0.15	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	0937_SW032_211118	Normal	EM2123007	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Feb 2022	0937_SW032_220224	Normal	EM2203200	0.05	<0.01	0.08	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_SW032_220531	Normal	EM2210258	0.15	<0.01	0.24	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	0.02	0.08	<0.02	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW032_220901	Normal	EM2216991	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_SW032_221130	Normal	EM2223921	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Nov 2023	0937_SW032_231123	Normal	EM2320915	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW033	27 Oct 2016	OSW033	Normal	EM1613005	1.34	0.024	2.49	0.178	0.141	1.15	0.066	<0.002	<0.01	0.021	0.079	0.007	<0.002	<0.002	<0.002
	19 Mar 2020	0937_QC102_20200319	Field_D	EM2004707	0.95	0.01	1.20	0.03	0.04	0.25	0.02	<0.02	0.2	0.05	0.10	0.02	<0.02	<0.02	<0.02
		0937_QC202_20200319	Interlab_D	711148	0.79	0.02	1.03	0.02	0.02	0.24	<0.01	<0.01	<0.05	0.06	0.08	0.02	<0.01	<0.01	<0.01
		0937_SW033_20200319	Normal	EM2004707	0.95	0.02	1.19	0.03	0.03	0.24	<0.02	<0.02	0.2	0.06	0.10	0.02	<0.02	<0.02	<0.02
	19 Jun 2020	0937_QC107_20200619	Field_D	EM2010382	0.90	0.02	1.29	0.06	0.03	0.39	<0.02	<0.02	<0.1	0.06	0.11	0.03	<0.02	<0.02	<0.02
		0937_QC207_200619	Interlab_D	726765	0.82	<0.01	1.09	0.04	0.03	0.27	0.01	<0.01	<0.05	0.05	0.08	0.02	<0.01	<0.01	<0.01
		0937_SW033_20200619	Normal	EM2010382	0.97	0.02	1.36	0.06	0.04	0.39	<0.02	<0.02	<0.1	0.06	0.11	0.03	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW033_201112	Normal	EM2020041	1.68	0.02	2.19	0.06	0.05	0.51	0.03	<0.02	<0.1	0.45	0.32	0.08	<0.02	<0.02	<0.02
	04 Feb 2021	0937_SW033_210204	Normal	EM2101558	1.52	0.02	1.86	0.22	0.03	0.34	0.02	<0.02	<0.1	0.08	0.12	0.03	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW033_20210429	Normal	EM2107856	0.76	0.02	1.26	0.15	0.06	0.50	0.02	<0.02	<0.1	0.06	0.15	0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW033_210805	Normal	EM2115478	2.48	0.05	3.55	0.12	0.12	1.07	0.07	<0.02	<0.1	0.09	0.24	0.04	<0.02	<0.02	<0.02
	11 Nov 2021	0937_QC105_211111	Field_D	EM2123001	1.86	0.04	2.70	0.12	0.11	0.84	0.06	<0.02	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02
		0937_QC205_211111	Interlab_D	847843	3.2	0.06	4.6	0.14	0.16	1.4	0.07	<0.01	0.07	0.09	0.24	0.03	<0.01	<0.01	<0.01
		0937_SW033_211111	Normal	EM2123001	1.96	0.05	2.78	0.14	0.10	0.82	0.06	<0.02	<0.1	0.04	0.21	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW033_220223	Normal	EM2203197	3.57	0.22	8.53	0.66	0.66	4.96	0.28	<0.02	0.2	0.63	1.19	0.21	<0.02	<0.02	<0.02
	31 May 2022	0937_SW033_220528	Normal	EM2210255	3.61	0.16	7.39	0.55	0.50	3.78	0.21	<0.02	0.1	0.42	0.89	0.16	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW033_220901	Normal	EM2216994-AD	2.22	0.09	4.93	0.34	0.41	2.71	0.12	<0.02	<0.1	0.2	0.44	0.09	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW033_231121	Normal	EM2320912	6.74	0.17	9.87	0.59	0.49	3.13	0.23	<0.02	<0.1	0.18	0.61	0.11	<0.02	<0.02	<0.02
SW034	26 Oct 2016	OSW034	Normal	EM1612997	0.107	<0.002	0.264	0.02	0.016	0.157	0.004	<0.002	<0.01	0.004	0.024	0.003	<0.002	<0.002	<0.002
	28 Nov 2019	0937_SW034_191128	Normal	EM1920529-AC	1.27	0.01	1.44	0.03	0.03	0.17	<0.02	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW034_20200320	Normal	EM2004707	1.33	0.01	1.53	0.03	0.05	0.20	0.02	<0.02	<0.1	0.07	0.31	0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW034_20200618	Normal	EM2010382	0.49	<0.01	0.65	0.04	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.24	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW034_201113	Normal	EM2020041	0.54	<0.01	0.72	<0.02	0.02	0.18	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW034_2102032	Normal	EM2101558	2.42	0.02	2.73	0.03	0.04	0.31	0.02	<0.02	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW034_20210429	Normal	EM2107856	0.54	0.01	0.77	0.08	0.03	0.23	<0.02	<0.02	<0.1	0.05	0.25	0.03	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW034_210806	Normal	EM2115478	0.07	<0.01	0.09	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	0937_SW034_211117	Normal	EM2123001	0.11	<0.01	0.14	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Feb 2022	0937_SW034_220224	Normal	EM2203197	0.66	0.01	0.81	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_SW034_220531	Normal	EM2210255	0.28	0.01	0.46	0.02	0.02	0.18	<0.02	<0.02	<0.1	0.04	0.10	<0.02	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW034_220901	Normal	EM2216994-AD	0.21	<0.01	0.36	0.02	0.02	0.15	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW034_231121	Normal	EM2320912	0.20	<0.01	0.23	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW035	26 Oct 2016	OSW035	Normal	EM1612997	0.494	0.004	0.74	0.022	0.019	0.246	0.015	<0.002	<0.01	0.004	0.026	0.004	<0.002	<0.002	<0.002
	26 Mar 2020	0937_SW035_20200326	Normal	EM2005031	1.16	0.02	1.46	0.03	0.05	0.30	0.02	<0.02	<0.1	0.05	0.29	0.03	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW035_20200623	Normal	EM2010693	0.12	<0.01	0.26	0.02	0.02	0.14	<0.02	<0.02	<0.1	0.03	0.17	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW035_201113	Normal	EM2020041	0.30	<0.01	0.45	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	<0.02	0.14	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	0937_SW035_210204	Normal	EM2101558	7.11	0.02	7.41	0.05	0.03	0.30	0.04	0.21	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW035_20210429	Normal	EM2107856	0.26	0.02	0.53	0.06	0.04	0.27	<0.02	<0.02	<0.1	0.05	0.24	0.03	<0.02	<0.02	<0.02
	24 Feb 2022	0937_SW035_220224	Normal	EM2203197	0.42	<0.01	0.56	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_SW035_220529	Normal	EM2210255	0.38	0.01	0.58	<0.02	0.02	0.20	<0.02	<0.02	<0.1	0.04	0.10	0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW035_231121	Normal	EM2320912	0.25	<0.01	0.29	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW041	26 Oct 2016	OSW041	Normal	EM1612997	0.152	<0.002	0.329	0.02	0.017	0.177	0.007	<0.002	<0.01	0.004	0.026	0.003	<0.002	<0.002	<0.002
	28 Nov 2019	0937_SW041_191128	Normal	EM1920529-AC	2.07	0.04	2.35	0.04	0.04	0.28	0.04	<0.02	<0.1	0.05	0.21	<0.02	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW041_20200320	Normal	EM2004707	3.60	0.07	4.69	0.08	0.20	1.09	0.11	<0.02	<0.1	0.20	0.79	0.08	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW041_20200618	Normal	EM2010382	0.67	0.01	0.93	0.03	0.03	0.26	0.06	<0.02	<0.1	0.04	0.22	0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW041_201113	Normal	EM2020041	0.39	<0.01	0.55	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW041_210203	Normal	EM2101558	2.89	0.03	3.19	0.03	0.04	0.30	0.02	0.05	<0.1	0.04	0.23	0.03	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW041_20210429	Normal	EM2107856	0.92	0.02	1.21	0.06	0.05	0.29	<0.02	<0.02	<0.1	0.04	0.24	0.03	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW041_210806	Normal	EM2115478	0.17	<0.01	0.20	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_SW041_211111	Normal	EM2123001	0.40	<0.01	0.44	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	24 Feb 2022	0937_SW041_220224	Normal	EM2203197	0.86	0.01	1.03	0.03	<0.02	0.17	<0.02	<0.02	<0.1	0.03	0.09	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_SW041_220529	Normal	EM2210255	1.17	0.01	1.37	0.02	0.02	0.20	<0.02	<0.02	<0.1	0.04	0.11	<0.02	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW041_220901	Normal	EM2216994-AD	0.29	0.01	0.45	0.03	0.02	0.16	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW041_231121	Normal	EM2320912	0.57	0.02	0.76	<0.02	0.02	0.19	<0.02	<0.02	<0.1	<0.02	0.12	<0.02	<0.02	<0.02	<0.02
SW049	27 Oct 2016	OSW049	Normal	EM1613003	0.198	<0.002	0.361	0.02	0.015	0.163	0.004	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	03 Dec 2019	0937_SW049_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_SW049_	Normal	EM2004719	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW049_20200618	Normal	EM2010386	0.12	<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	12 Nov 2020	0937_SW049_201112	Normal	EM2020046	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_SW049_210201	Normal	EM2101559	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	0937_SW049_20210421	Normal	EM2107088	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	0937_SW049_210806	Normal	EM2115480	<0.01	<0.01	0.08	0.03	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Nov 2021	0937_SW049_211118	Normal	EM2123002	0.36	<0.01	0.68	0.14	0.04	0.32	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW049_220222	Normal	EM2203201	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	0937_SW049_220531	Normal	EM2210259	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Aug 2022	0937_SW049_220829	Normal	EM2216987	0.04	<0.01	0.38	0.07	0.07	0.34	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	01 Dec 2022	0937_SW049_221201	Normal	EM2223923	0.94	0.03	1.67	0.05	0.07	0.73	0.03	<0.02	<0.1	0.02	0.09	<0.02	<0.02	<0.02	<0.02
	23 Nov 2023	0937_SW049_231123	Normal	EM2320918	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW052	26 Oct 2016	OSW052	Normal	EM1612985	0.293	0.009	0.603	0.038	0.029	0.31	0.012	<0.002	<0.01	0.007	0.06	0.005	<0.002	<0.002	<0.002
	04 Dec 2019	0937_SW052_191204	Normal	EM1920785	6.26	0.05	6.86	0.03	0.04	0.60	0.11	<0.02	<0.1	0.06	0.23	0.04	<0.02	<0.02	<0.02
	19 Mar 2020	0937_SW052_20200319	Normal	EM2004717	13.9	0.09	15.2	0.08	0.19	1.28	0.20	0.03	<0.1	0.16	0.65	0.12	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW052-200623	Normal	EM2010691	11.6	0.06	12.4	0.06	0.07	0.78	0.15	<0.02	<0.1	0.09	0.38	0.07	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW052_201112	Normal	EM2020043	3.24	0.04	4.15	0.07	0.07	0.91	0.05	<0.02	<0.1	0.05	0.36	0.05	<0.02	<0.02	<0.02
	04 Feb 2021	0937_SW052_210204	Normal	EM2101564	2.99	0.03	3.38	0.03	0.04	0.39	0.05	<0.02	<0.1	0.06	0.24	0.04	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW052_20210429	Normal	EM2107806	0.96	0.02	1.22	0.06	0.04	0.26	0.02	<0.02	<0.1	0.04	0.23	0.03	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW052_210805	Normal	EM2115484	0.60	<0.01	0.79	<0.02	<0.02	0.19	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_SW052_211111	Normal	EM2123006	0.87	0.01	1.16	0.02	0.03	0.29	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	0937_SW052_220223	Normal	EM2203199	0.94	0.01	1.11	0.04	<0.02	0.17	<0.02	<0.02	<0.1	0.04	0.07	<0.02	<0.02	<0.02	<0.02
	28 May 2022	0937_SW052_220528	Normal	EM2210256	0.78	<0.01	0.81	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Sep 2022	0937_SW052_220901	Normal	EM2216992	1.12	0.02	1.67	0.07	0.07	0.55	0.03	<0.02	<0.1	0.06	0.13	0.03	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW052_231121	Normal	EM2320914	0.33	<0.01	0.44	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.02	0.04	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW077	**02 Dec 2019**	**0937_QC209_191202**	**Interlab_D**	**692892**	0.03	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	03 Dec 2019	**0937_QC109_191203**	**Field_D**	**EM1920780**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_SW077_191203	**Normal**	**EM1920780**	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Mar 2020	**0937_SW077_20200318**	**Normal**	**EM2004708**	0.05	0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	**0937_SW077_20200622**	**Normal**	**EM2010695**	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	**0937_SW077_201113**	**Normal**	**EM2020052**	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	**0937_SW077_210204**	**Normal**	**EM2101560**	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	**0937_SW077_2021042**	**Normal**	**EM2107087**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	**0937_SW077_210805**	**Normal**	**EM2115569**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	17 Nov 2021	**0937_SW077_211117**	**Normal**	**EM2123079**	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Feb 2022	**0937_SW077_220221**	**Normal**	**EM2203192**	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	**0937_SW077_220531**	**Normal**	**EM2210253**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	02 Sep 2022	**0937_SW077_220902**	**Normal**	**EM2216985**	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	01 Dec 2022	**0937_SW077_221201**	**Normal**	**EM2223925**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	**0937_SW077_231122**	**Normal**	**EM2320919**	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW080	**04 Dec 2019**	**0937_SW080_191204**	**Normal**	**EM1920780**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	25 Mar 2020	**0937_SW080_20200325**	**Normal**	**EM2005032**	0.01	<0.01	0.03	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	**0937_SW080_20200621**	**Normal**	**EM2010695**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	**0937_SW080_201113**	**Normal**	**EM2020052**	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Feb 2021	**0937_SW080_210202**	**Normal**	**EM2101560**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Apr 2021	**0937_SW080_20210430**	**Normal**	**EM2107805**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	06 Aug 2021	**0937_SW080_210806**	**Normal**	**EM2115569**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	**0937_SW080_211111**	**Normal**	**EM2123079**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	**0937_SW080_220223**	**Normal**	**EM2203192**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 May 2022	**0937_SW080_220527**	**Normal**	**EM2210253**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	**0937_QC113_220831**	**Field_D**	**EM2216985**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_QC213_220831	**Interlab_D**	**922406**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		0937_SW080_220831	**Normal**	**EM2216985**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	**0937_SW080_231122**	**Normal**	**EM2320919**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW082	**04 Dec 2019**	**0937_SW082_191204**	**Normal**	**EM1920787**	<0.01	<0.01	0.04	0.03	0.02	0.04	<0.02	<0.02	<0.1	0.05	0.22	<0.02	<0.02	<0.02	<0.02
	25 Mar 2020	**0937_SW082_20200325**	**Normal**	**EM2005034**	0.01	<0.01	0.16	0.03	0.03	0.15	<0.02	<0.02	<0.1	0.04	0.23	<0.02	<0.02	<0.02	<0.02
	22 Jun 2020	**0937_SW082_200623**	**Normal**	**EM2010690**	0.03	<0.01	0.10	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	**0936_SW082_201113**	**Normal**	**EM2020047**	0.02	<0.01	0.12	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.08	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	**0937_SW082_210202**	**Normal**	**EM2101562**	0.06	<0.01	0.22	0.04	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.22	<0.02	<0.02	<0.02	<0.02
	30 Apr 2021	**0937_SW082_20210430**	**Normal**	**EM2107855**	0.02	<0.01	0.17	0.04	0.02	0.15	<0.02	<0.02	<0.1	0.05	0.25	0.02	<0.02	<0.02	<0.02
	06 Aug 2021	**0937_SW082_210806**	**Normal**	**EM2115483**	0.06	<0.01	0.08	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	**0937_SW082_211111**	**Normal**	**EM2123004**	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	23 Feb 2022	**0937_SW082_220223**	**Normal**	**EM2203194**	0.06	<0.01	0.12	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	27 May 2022	**0937_SW082_220527**	**Normal**	**EM2210252**	0.07	<0.01	0.15	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	**0937_SW082_220831**	**Normal**	**EM2216996**	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	22 Nov 2023	**0937_SW082_231122**	**Normal**	**EM2320910**	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW088	04 Dec 2019	0937_SW088_191204	Normal	EM1920784	0.04	<0.01	0.07	0.03	<0.02	0.03	<0.02	<0.02	<0.1	0.04	0.20	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_SW088_20200319	Normal	EM2004706	5.68	0.12	7.18	0.06	0.12	1.50	0.29	<0.02	<0.1	0.12	0.56	0.06	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW088_20200618	Normal	EM2010381	2.62	0.04	3.03	0.04	0.06	0.41	0.10	<0.02	<0.1	0.07	0.38	0.03	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW088_201112	Normal	EM2020047	9.74	0.03	10.1	0.03	0.04	0.39	0.10	<0.02	<0.1	0.02	0.24	0.03	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW088_210202	Normal	EM2101562	0.20	0.01	0.43	0.03	0.02	0.23	<0.02	<0.02	<0.1	0.03	0.21	0.02	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW088_20210429	Normal	EM2107855	0.48	<0.01	0.66	0.04	0.02	0.18	<0.02	<0.02	<0.1	0.06	0.34	<0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW088_210805	Normal	EM2115483	0.08	<0.01	0.12	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_SW088_211111	Normal	EM2123004	0.27	<0.01	0.31	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW088_220222	Normal	EM2203194	0.51	<0.01	0.60	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_SW088_220529	Normal	EM2210252	0.13	<0.01	0.22	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	0937_SW088_220831	Normal	EM2216996	0.10	<0.01	0.14	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW088_231121	Normal	EM2320910	0.43	<0.01	0.46	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW089	04 Dec 2019	0937_SW089_191204	Normal	EM1920787	0.06	<0.01	0.30	0.04	0.04	0.24	<0.02	<0.02	<0.1	0.06	0.31	0.02	<0.02	<0.02	<0.02
	25 Mar 2020	0937_SW089_20200325	Normal	EM2005034	0.09	0.01	0.42	0.05	0.07	0.33	<0.02	<0.02	<0.1	0.08	0.42	0.03	<0.02	<0.02	<0.02
	22 Jun 2020	0937_SW089_20200623	Normal	EM2010690	0.15	<0.01	0.34	0.03	0.03	0.19	<0.02	<0.02	<0.1	0.04	0.24	<0.02	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW089_201113	Normal	EM2020047	0.12	<0.01	0.26	0.02	0.02	0.14	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW089_210202	Normal	EM2101562	0.43	0.01	0.66	0.04	0.03	0.23	<0.02	<0.02	<0.1	0.03	0.19	0.02	<0.02	<0.02	<0.02
	30 Apr 2021	0937_SW089_20210430	Normal	EM2107855	0.36	<0.01	0.64	0.03	0.03	0.28	<0.02	<0.02	<0.1	0.05	0.28	0.03	<0.02	<0.02	<0.02
	04 Aug 2021	0937_SW089_210804	Normal	EM2115483	0.25	<0.01	0.29	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	10 Nov 2021	0937_SW089_211110	Normal	EM2123004	0.17	<0.01	0.20	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW089_220222	Normal	EM2203194	0.42	<0.01	0.49	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	27 May 2022	0937_SW089_220527	Normal	EM2210252	0.17	<0.01	0.26	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	0937_SW089_220831	Normal	EM2216996	0.16	<0.01	0.22	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW089_231121	Normal	EM2320910	0.14	<0.01	0.16	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW092	03 Dec 2019	0937_SW092_191203	Normal	EM1920780	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Mar 2020	0937_SW092_20200316	Normal	EM2004774	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW092_20200618	Normal	EM2010385	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW092_201112	Normal	EM2020045	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_SW092_210203	Normal	EM2101568	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	0937_SW092_20210421	Normal	EM2107090	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_SW092_210804	Normal	EM2115485	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_SW092_211111	Normal	EM2123008	0.06	<0.01	0.07	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW092_220222	Normal	EM2203193	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_SW092_220529	Normal	EM2210260	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	0937_SW092_220830	Normal	EM2216989	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_SW092_221130	Normal	EM2223922	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW092_231121	Normal	EM2320917	0.03	<0.01	0.03	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW093	03 Dec 2019	0937_SW093_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Mar 2020	0937_SW093_20200316	Normal	EM2004708	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW093_200618	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW093_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	03 Feb 2021	0937_SW093_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Apr 2021	0937_SW093_20210421	Normal	EM2107087	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_SW093_210804	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	11 Nov 2021	0937_SW093_211111	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW093_220222	Normal	EM2203192	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 May 2022	0937_SW093_220529	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Aug 2022	0937_SW093_220830	Normal	EM2216985	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	30 Nov 2022	0937_SW093_221130	Normal	EM2223925	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW093_231121	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW201	12 Nov 2021	0937_SW201_211112	Normal	EM2123080	2.62	0.04	3.28	0.08	0.06	0.66	0.05	<0.02	<0.1	0.03	0.08	<0.02	<0.02	<0.02	<0.02
	23 Aug 2022	0937_QC103_220823	Field_D	EM2216476	8.47	0.14	10.9	0.32	0.25	2.47	0.21	<0.02	0.2	0.21	0.49	0.05	<0.02	<0.02	<0.02
		0937_QC203_220823	Interlab_D	922647	10	0.16	13.4	0.27	0.39	3.4	0.38	<0.01	0.21	0.17	0.63	0.06	<0.01	<0.01	<0.01
		0937_SW201_220823	Normal	EM2216476	7.93	0.16	11.3	0.25	0.30	3.38	0.22	<0.02	0.2	0.18	0.41	0.06	<0.02	<0.02	<0.02
	22 Nov 2022	0937_SW201_221122	Normal	EM2223510	11.4	0.27	17.0	0.41	0.52	5.60	0.34	<0.02	0.2	0.17	0.78	0.10	<0.02	<0.02	<0.02
SW203	20 Nov 2019	0937_SW203_191120	Normal	EM1920039	10.1	0.30	24.5	0.94	1.25	14.4	0.39	<0.02	0.3	0.33	1.56	0.10	<0.02	<0.02	<0.02
	17 Mar 2020	0937_SW203_20200317	Normal	EM2004711	3.48	0.06	5.59	0.15	0.28	2.11	0.10	<0.02	<0.1	0.08	0.37	0.03	<0.02	<0.02	<0.02
	15 Jun 2020	0937_SW203_20200615	Normal	EM2010514	1.93	0.04	3.17	0.11	0.10	1.24	0.05	<0.02	0.1	0.07	0.27	0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW203_201110	Normal	EM2020050	11.1	0.14	14.5	0.23	0.30	3.40	0.24	<0.02	0.1	0.13	0.71	0.05	<0.02	<0.02	<0.02
	03 Feb 2021	0937_SW203_210203	Normal	EM2101575	0.94	0.04	2.14	0.18	0.13	1.20	0.04	<0.02	0.2	0.11	0.49	0.04	<0.02	<0.02	<0.02
	22 Apr 2021	0937_ SW203 _20210422	Normal	EM2107085	2.49	0.06	4.16	0.18	0.17	1.67	0.10	<0.02	<0.1	0.08	0.46	0.04	<0.02	<0.02	<0.02
	13 Jul 2021	0937_QC105_210713	Field_D	EM2113872-AB	25.5	1.48	106	15.2	9.84	80.0	1.94	<0.04	1.2	4.74	22.4	0.87	<0.04	<0.04	<0.04
		0937_QC205_210713	Interlab_D	811260	27	2.2	137	21	20	110	1.6	<0.1	4.3	6.7	28	1.2	<0.1	<0.1	<0.1
		0937_SW203_210713	Normal	EM2113872-AB	26.2	1.34	100	13.4	8.34	74.2	1.73	<0.04	1.0	3.97	20.5	0.83	<0.04	<0.04	<0.04
	12 Nov 2021	0937_SW203_211112	Normal	EM2123080	0.50	<0.01	0.74	<0.02	<0.02	0.24	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	15 Feb 2022	0937_SW203_220215	Normal	EM2202703	33.6	0.2	39.5	0.6	0.57	5.86	0.59	<0.02	0.3	0.34	1.51	0.1	<0.02	<0.02	<0.02
	25 May 2022	0937_QC102_220525	Field_D	EM2210316	15.6	0.20	20.4	0.47	0.48	4.82	0.31	<0.02	0.2	0.28	1.33	0.09	<0.02	<0.02	<0.02
		0937_QC202_220525	Interlab_D	893740	16	0.16	19.8	0.33	0.43	3.8	0.26	<0.01	0.13	0.17	0.76	0.07	<0.01	<0.01	<0.01
		0937_SW203_220525	Normal	EM2210316	13.6	0.15	17.2	0.36	0.39	3.59	0.23	<0.02	0.1	0.26	0.95	0.08	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW203_220823	Normal	EM2216476	4.13	0.11	10.2	0.61	0.54	6.11	0.20	<0.02	0.2	0.25	0.63	0.05	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW203_221124	Normal	EM2223510	12.1	1.00	62.6	13.1	9.91	50.5	0.90	<0.04	0.7	2.51	11.7	0.84	<0.04	<0.04	<0.04
	16 Nov 2023	0937_SW203_231116	Normal	EM2320952	6.40	0.07	8.78	0.20	0.24	2.38	0.11	0.02	<0.1	0.11	0.58	0.04	<0.02	<0.02	<0.02
SW206	13 Oct 2016	SW206	Normal	EM1612198	22.9	0.4	25.96	0.26	0.32	3.06	0.27	<0.02	<0.1	0.59	1.21	0.27	0.02	0.04	<0.02
	28 Jan 2021	0937_SW206_210128	Normal	EM2101229	0.08	<0.01	0.17	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
SW208	14 Oct 2016	SW208	Normal	EM1612198	2.65	0.05	4.61	0.21	0.17	1.96	0.1	<0.02	<0.1	<0.02	0.25	0.03	<0.02	<0.02	<0.02
	17 Mar 2020	0937_SW208_20200317	Normal	EM2004711	0.39	<0.01	0.53	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	15 Jun 2020	0937_SW208_200615	Normal	EM2010514	0.39	<0.01	0.57	<0.02	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0937_QC107_201110	Field_D	EM2020050	1.57	0.03	2.37	0.12	0.08	0.80	0.04	<0.02	<0.1	0.13	0.24	0.04	<0.02	<0.02	<0.02
		0937_QC207_201110	Interlab_D	757178	1.3	0.05	2.4	0.13	0.11	1.1	0.04	<0.01	0.12	0.18	0.29	0.05	<0.01	<0.01	<0.01
		0937_SW208_201110	Normal	EM2020050	1.24	0.03	2.13	0.12	0.10	0.89	0.03	<0.02	<0.1	0.13	0.24	0.04	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW208_210128	Normal	EM2101229	1.92	0.03	3.02	0.10	0.09	1.10	0.06	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_ SW208 _20210428	Normal	EM2107858	0.32	<0.01	0.45	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_SW208_210713	Normal	EM2113872-AB	3.04	0.06	4.47	0.30	0.18	1.43	0.07	<0.02	<0.1	0.14	0.41	0.05	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW208_211112	Normal	EM2123080	0.05	<0.01	0.08	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Feb 2022	0937_QC108_220216	Field_D	EM2202703	0.68	0.02	1.06	0.08	0.06	0.38	<0.02	<0.02	<0.1	0.14	0.25	0.02	<0.02	<0.02	<0.02
		0937_QC208_220216	Interlab_D	864735	0.74	0.02	1.11	0.09	0.06	0.37	0.01	<0.01	0.14	0.16	0.16	0.03	<0.01	<0.01	<0.01
		0937_SW208_220216	Normal	EM2202703	0.8	0.02	1.16	0.08	0.06	0.36	<0.02	<0.02	<0.1	0.13	0.23	0.02	<0.02	<0.02	<0.02
	25 May 2022	0937_QC103_220525	Field_D	EM2210316	0.45	<0.01	0.73	0.04	0.03	0.28	<0.02	<0.02	<0.1	0.10	0.14	<0.02	<0.02	<0.02	<0.02
		0937_QC203_220525	Interlab_D	893740	0.30	<0.01	0.48	0.02	0.02	0.18	<0.01	<0.01	<0.05	0.10	0.13	0.01	<0.01	<0.01	<0.01
		0937_SW208_220525	Normal	EM2210316	0.24	<0.01	0.42	0.02	<0.02	0.18	<0.02	<0.02	<0.1	0.12	0.11	<0.02	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW208_220823	Normal	EM2216476	0.63	0.02	1.22	0.09	0.07	0.59	0.02	<0.02	<0.1	0.08	0.11	<0.02	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW208_221124	Normal	EM2223510	2.02	0.03	2.82	0.14	0.10	0.80	0.04	<0.02	<0.1	0.06	0.18	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW209	21 Oct 2016	SW209	Normal	EM1612570	255	2.34	283	2.45	2.57	28	2.98	0.53	<0.1	2.32	5.56	1.1	<0.1	<0.1	<0.1
	20 Nov 2019	0937_SW209_191120	Normal	EM1920039	31.2	0.61	35.2	0.42	0.33	4.02	0.68	0.53	0.4	0.41	1.49	0.17	<0.02	0.03	<0.02
	17 Mar 2020	0937_SW209_20200317	Normal	EM2004711	33.3	0.26	35.4	0.22	0.26	2.09	0.28	1.09	0.2	0.16	0.94	0.09	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW209_200616	Normal	EM2010514	18.2	0.26	19.6	<0.02	0.14	1.41	0.20	0.41	0.2	0.11	0.62	0.09	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW209_201110	Normal	EM2020050	13.6	0.20	15.2	0.86	0.22	1.57	0.11	0.21	<0.2	0.28	0.89	0.09	<0.04	<0.04	<0.04
	28 Jan 2021	0937_SW209_210128	Normal	EM2101229	14.8	0.26	16.9	0.54	0.21	2.06	0.21	0.33	0.4	0.28	0.74	0.09	<0.02	<0.02	<0.02
	22 Apr 2021	0937_ SW209 _2022042	Normal	EM2107085	12.2	0.23	13.3	0.30	0.12	1.10	0.25	0.51	0.2	0.11	0.39	0.06	<0.02	<0.02	<0.02
	13 Jul 2021	0937_SW209_210713	Normal	EM2113872-AB	18.0	0.36	20.3	0.63	0.22	2.34	0.30	0.07	<0.2	0.19	0.85	0.14	<0.04	<0.04	<0.04
	15 Nov 2021	0937_QC110_211115	Field_D	EM2123080	33.3	1.49	44.1	1.17	1.47	10.8	1.29	0.11	0.5	0.61	2.01	0.39	<0.02	<0.02	<0.02
		0937_QC210_211115	Interlab_D	842318	49	1.4	63	1.2	1.4	14	1.3	<1	0.54	0.65	2.1	0.46	0.01	<0.01	<0.01
		0937_SW209_211115	Normal	EM2123080	33.1	1.48	43.8	1.36	1.27	10.7	1.23	0.11	0.5	0.62	2.24	0.42	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW209_220222	Normal	EM2203247	13.3	0.21	16.5	0.6	0.33	3.16	0.14	0.23	<0.2	0.22	0.87	0.1	<0.04	<0.04	<0.04
	23 Aug 2022	0937_SW209_220823	Normal	EM2216476	4.70	0.04	5.17	0.14	0.06	0.47	0.05	0.14	<0.1	0.04	0.09	<0.02	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW209_221124	Normal	EM2223510	24.7	0.58	38.9	3.86	4.01	14.2	1.21	1.53	0.3	1.13	4.40	0.49	<0.02	<0.02	0.02
	17 Nov 2023	0937_QC117_231117	Field_D	EM2320952	15.2	0.40	19.6	1.04	0.68	4.41	0.38	0.17	0.4	0.51	1.17	0.18	<0.04	<0.04	<0.04
		0937_QC217_231117	Interlab_D	1048259	11	0.33	14.2	0.76	0.84	3.2	0.23	0.07	0.80	0.50	0.89	0.14	<0.01	<0.01	<0.01
		0937_SW209_231117	Normal	EM2320952	12.7	0.34	17.2	1.48	0.75	4.52	0.45	0.16	0.4	0.43	1.25	0.15	<0.02	<0.02	<0.02
SW216	21 Oct 2016	SW216	Normal	EM1612570	14	0.07	17.11	0.31	0.27	3.11	0.16	<0.02	<0.1	0.06	0.19	0.03	<0.02	<0.02	<0.02
	03 Aug 2021	0937_SW216_210803	Normal	EM2115476	1.59	0.03	2.72	0.15	0.11	1.13	0.08	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_SW216_220217	Normal	EM2202703	3.1	0.2	4.51	0.19	0.13	1.41	0.09	<0.02	0.2	0.1	0.31	0.05	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW216_221124	Normal	EM2223510	3.56	0.06	4.76	0.12	0.09	1.20	0.09	<0.02	<0.1	0.06	0.14	0.03	<0.02	<0.02	<0.02
SW217	16 Nov 2021	0937_SW217_211116	Normal	EM2123080	5.81	0.13	7.69	0.23	0.22	1.88	0.14	<0.02	1.0	0.53	0.41	0.03	<0.02	<0.02	<0.02
	26 Aug 2022	0937_SW217_220826	Normal	EM2216476	9.77	0.30	17.8	0.95	0.80	8.06	0.34	<0.02	0.9	0.82	1.15	0.13	<0.02	<0.02	<0.02
SW222	12 Oct 2016	SW222	Normal	EM1612198	0.48	0.02	0.58	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW222_20200616	Normal	EM2010514	2.89	0.07	4.97	0.32	0.26	2.08	0.14	<0.02	0.4	<0.02	0.45	0.04	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW222_210128	Normal	EM2101229	0.30	0.01	0.77	0.06	0.03	0.47	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_SW222_210713	Normal	EM2113872-AB	2.11	0.11	4.58	0.49	0.27	2.47	0.08	<0.02	<0.1	0.17	0.67	0.06	<0.02	<0.02	<0.02
	15 Nov 2021	0937_QC112_211115	Field_D	EM2123080	1.46	0.04	2.47	0.17	0.13	1.01	0.06	<0.02	<0.1	0.12	0.23	0.03	<0.02	<0.02	<0.02
		0937_QC212_211115	Interlab_D	842318	2.2	0.05	3.4	0.21	0.17	1.2	0.06	<0.01	0.14	0.12	0.29	0.03	<0.01	<0.01	<0.01
		0937_SW222_211115	Normal	EM2123080	1.46	0.04	2.44	0.18	0.11	0.98	0.06	<0.02	<0.1	0.10	0.23	0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_QC110_220217	Field_D	EM2202703	0.39	<0.01	0.49	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	0.11	0.19	0.02	<0.02	<0.02	<0.02
		0937_QC210_220217	Interlab_D	864735	0.42	0.01	0.53	0.02	0.01	0.11	<0.01	<0.01	0.12	0.15	0.14	0.03	<0.01	<0.01	<0.01
		0937_SW222_220217	Normal	EM2202703	0.36	<0.01	0.46	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	0.08	0.14	<0.02	<0.02	<0.02	<0.02
	25 May 2022	0937_QC108_220525	Field_D	EM2210316	0.69	0.01	1.00	0.04	0.03	0.31	<0.02	<0.02	<0.1	0.97	0.97	0.14	<0.02	<0.02	<0.02
		0937_QC208_220525	Interlab_D	893740	0.38	<0.01	0.56	0.02	0.02	0.18	0.01	<0.01	0.11	0.85	0.76	0.10	<0.01	<0.01	<0.01
		0937_SW222_220525	Normal	EM2210316	0.52	0.01	0.74	0.02	0.02	0.22	<0.02	<0.02	<0.1	1.37	0.94	0.15	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW222_220824	Normal	EM2216476	1.52	0.04	2.56	0.16	0.12	1.04	0.05	<0.02	<0.1	0.23	0.23	0.05	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW222_221124	Normal	EM2223510	0.87	0.03	1.56	0.11	0.09	0.69	0.03	<0.02	0.2	0.40	1.10	0.07	<0.02	<0.02	<0.02

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW223	12 Oct 2016	SW223	Normal	EM1612198	3.52	0.12	5.78	0.28	0.25	2.26	0.12	<0.02	<0.1	<0.02	0.39	0.04	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW223_20200317	Normal	EM2004711	0.48	0.01	0.68	0.03	0.03	0.20	<0.02	<0.02	<0.1	0.08	0.44	0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW223_20200616	Normal	EM2010514	0.82	0.01	0.98	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW223_201110	Normal	EM2020050	0.13	<0.01	0.13	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW223_210128	Normal	EM2101229	0.11	<0.01	0.22	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	28 Apr 2021	0937_QC109_20210428	Field_D	EM2107858	0.18	<0.01	0.37	0.02	<0.02	0.19	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
		0937_ SW223_20210428	Normal	EM2107858	0.23	0.01	0.40	0.03	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
		QC209_20210428	Interlab_D	792537	0.26	<0.01	0.45	0.02	0.02	0.19	<0.01	<0.01	<0.05	0.02	0.05	0.01	<0.01	<0.01	<0.01
	14 Jul 2021	0937_QC208_210713	Interlab_D	811260	2.3	0.12	5.4	0.65	0.62	3.1	0.13	<0.01	0.27	0.33	1.1	0.10	<0.01	<0.01	<0.01
		0937_SW223_210714	Normal	EM2113872-AB	1.54	0.09	3.76	0.53	0.25	2.22	0.05	<0.02	<0.1	0.25	0.70	0.09	<0.02	<0.02	<0.02
	15 Nov 2021	0937_SW223_211115	Normal	EM2123080	1.37	0.04	2.21	0.14	0.09	0.84	0.05	<0.02	<0.1	0.08	0.18	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_QC109_220217	Field_D	EM2202703	0.29	<0.01	0.4	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.11	0.17	0.02	<0.02	<0.02	<0.02
		0937_QC209_220217	Interlab_D	864735	0.32	0.01	0.43	0.02	0.01	0.11	<0.01	<0.01	0.12	0.17	0.15	0.03	<0.01	<0.01	<0.01
		0937_SW223_220217	Normal	EM2202703	0.29	<0.01	0.39	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	0.09	0.16	0.02	<0.02	<0.02	<0.02
	25 May 2022	0937_QC109_220525	Field_D	EM2210316	0.46	0.01	0.72	0.02	0.02	0.26	<0.02	<0.02	<0.1	0.95	0.69	0.10	<0.02	<0.02	<0.02
		0937_QC209_220525	Interlab_D	893740	0.31	<0.01	0.48	0.02	0.02	0.17	0.01	<0.01	0.07	0.53	0.37	0.07	<0.01	<0.01	<0.01
		0937_SW223_220525	Normal	EM2210316	0.35	<0.01	0.53	<0.02	<0.02	0.18	<0.02	<0.02	<0.1	0.79	0.43	0.07	<0.02	<0.02	<0.02
	24 Aug 2022	0937_QC105_220824	Field_D	EM2216476	1.08	0.03	1.68	0.14	0.07	0.60	0.04	<0.02	<0.1	0.18	0.20	0.03	<0.02	<0.02	<0.02
		0937_QC205_220824	Interlab_D	922647	1.6	0.03	2.4	0.11	0.11	0.80	0.06	<0.01	0.07	0.16	0.26	0.04	<0.01	<0.01	<0.01
		0937_SW223_220824	Normal	EM2216476	1.18	0.03	1.90	0.11	0.09	0.72	0.04	<0.02	<0.1	0.17	0.17	0.04	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW223_221124	Normal	EM2223510	0.91	0.03	1.43	0.08	0.06	0.52	0.03	<0.02	<0.1	0.26	0.52	0.06	<0.02	<0.02	<0.02
	16 Nov 2023	0937_SW223_231116	Normal	EM2320952	0.46	0.01	0.74	0.05	0.03	0.28	<0.02	<0.02	<0.1	0.32	0.54	0.05	<0.02	<0.02	<0.02
SW226	12 Nov 2021	0937_SW226_211112	Normal	EM2123080	2.94	0.07	4.29	0.26	0.19	1.35	0.09	<0.02	0.1	0.11	0.36	0.03	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW226_220823	Normal	EM2216476	22.2	0.64	36.6	3.44	2.72	14.4	0.66	0.19	2.5	2.34	5.30	0.41	<0.04	<0.04	<0.04
	23 Nov 2022	0937_QC206_221123	Interlab_D	945182	32	0.89	53	4.5	3.3	21	0.87	0.06	3.0	2.2	5.9	0.72	0.02	<0.01	<0.01
		0937_SW226_221123	Normal	EM2223510	36.3	1.09	63.7	5.69	4.55	27.4	1.30	0.29	2.6	2.55	7.22	0.63	<0.04	<0.04	<0.04
SW227	14 Oct 2016	SW227	Normal	EM1612198	1.72	0.22	2.59	0.1	0.08	0.87	0.05	<0.02	<0.1	0.5	0.45	0.28	<0.02	<0.02	<0.02
	25 Nov 2019	0937_SW227_191125	Normal	EM1920529	0.33	0.05	0.54	0.02	0.02	0.21	<0.02	<0.02	0.1	0.26	0.26	0.10	<0.02	<0.02	<0.02
	17 Mar 2020	0937_SW227_20200317	Normal	EM2004711	0.75	0.08	0.93	<0.02	0.03	0.18	<0.02	<0.02	0.1	0.30	0.28	0.13	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW227_200616	Normal	EM2010514	0.44	0.09	0.70	0.03	0.03	0.26	<0.02	<0.02	0.2	0.40	0.38	0.16	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW227_201110	Normal	EM2020050	0.40	0.06	0.61	0.02	0.02	0.21	<0.02	<0.02	<0.1	0.30	0.27	0.14	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW227_210128	Normal	EM2101229	0.37	0.09	0.63	0.04	0.03	0.26	<0.02	<0.02	0.2	0.48	0.39	0.22	<0.02	<0.02	<0.02
	28 Apr 2021	0937_ SW227_20210428	Normal	EM2107858	0.41	0.08	0.66	0.04	0.02	0.25	<0.02	<0.02	0.2	0.35	0.38	0.16	<0.02	<0.02	<0.02
	14 Jul 2021	0937_QC111_210714	Field_D	EM2113872-AB	0.42	0.04	0.69	0.06	0.03	0.27	<0.02	<0.02	<0.1	0.13	0.17	0.06	<0.02	<0.02	<0.02
		0937_QC211_210714	Interlab_D	811260	0.54	0.06	0.81	0.05	0.05	0.27	0.02	<0.01	0.13	0.17	0.19	0.06	<0.01	<0.01	<0.01
		0937_SW227_210714	Normal	EM2113872-AB	0.45	0.06	0.73	0.10	0.04	0.28	<0.02	<0.02	<0.1	0.12	0.16	0.07	<0.02	<0.02	<0.02
	16 Nov 2021	0937_SW227_211116	Normal	EM2123080	0.56	0.05	0.83	0.05	0.04	0.27	<0.02	<0.02	<0.1	0.12	0.14	0.05	<0.02	<0.02	<0.02
	21 Feb 2022	0937_SW227_220221	Normal	EM2203247	0.8	0.07	1.14	0.08	0.05	0.34	<0.02	<0.02	<0.1	0.16	0.18	0.06	<0.02	<0.02	<0.02
	25 May 2022	0937_QC110_220525	Field_D	EM2210316	1.28	0.10	2.00	0.11	0.09	0.72	0.03	0.03	0.1	0.29	0.36	0.11	<0.02	<0.02	<0.02
		0937_QC210_220525	Interlab_D	893740	1.1	0.08	1.49	0.06	0.05	0.39	0.03	<0.01	0.12	0.19	0.18	0.08	0.01	<0.01	<0.01
		0937_SW227_220525	Normal	EM2210316	0.79	0.08	1.17	0.10	0.05	0.38	0.03	<0.02	<0.1	0.18	0.22	0.08	<0.02	<0.02	<0.02
	24 Aug 2022	0937_QC106_220824	Field_D	EM2216476	0.51	0.06	0.77	0.06	0.04	0.26	<0.02	<0.02	<0.1	0.18	0.15	0.06	<0.02	<0.02	<0.02
		0937_QC206_220824	Interlab_D	922647	0.68	0.07	1.02	0.06	0.04	0.34	0.02	<0.01	0.09	0.16	0.19	0.07	<0.01	<0.01	<0.01
		0937_SW227_220824	Normal	EM2216476	0.53	0.06	0.85	0.06	0.04	0.32	<0.02	<0.02	<0.1	0.17	0.13	0.08	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW227_221124	Normal	EM2223510	0.63	0.08	0.99	0.06	0.05	0.36	<0.02	<0.02	<0.1	0.17	0.20	0.09	<0.02	<0.02	<0.02
	16 Nov 2023	0937_QC115_231116	Field_D	EM2320952	0.71	0.06	1.05	0.06	0.05	0.34	<0.02	<0.02	<0.1	0.12	0.17	0.07	<0.02	<0.02	<0.02
		0937_QC215_231116	Interlab_D	1048259	0.72	0.06	1.01	0.05	0.04	0.29	0.02	<0.01	0.09	0.13	0.14	0.06	<0.01	<0.01	<0.01
		0937_SW227_231116	Normal	EM2320952	0.70	0.07	0.99	0.05	0.04	0.29	<0.02	<0.02	<0.1	0.14	0.17	0.07	<0.02	<0.02	<0.02

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW230	13 Oct 2016	SW230	Normal	EM1612198	0.82	0.04	1.56	0.13	0.09	0.74	0.03	<0.02	<0.1	0.06	0.18	0.04	<0.02	<0.02	<0.02
	25 Nov 2019	0937_SW230_191125	Normal	EM1920529	0.49	0.01	0.70	0.02	0.02	0.21	<0.02	<0.02	<0.1	0.04	0.08	0.02	<0.02	<0.02	<0.02
	18 Mar 2020	0937_SW230_20200318	Normal	EM2004711	0.31	<0.01	0.44	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_SW230_200617	Normal	EM2010514	0.41	<0.01	0.58	<0.02	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	11 Nov 2020	0937_SW230_201111	Normal	EM2020050	1.05	0.03	1.84	0.17	0.11	0.79	0.04	<0.02	<0.1	0.09	0.27	0.02	<0.02	<0.02	<0.02
	01 Feb 2021	0937_SW230_210201	Normal	EM2101575	0.29	<0.01	0.46	0.02	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	27 Apr 2021	0937_ SW230_20210427	Normal	EM2107858	0.72	0.01	0.96	0.04	<0.02	0.24	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_SW230_210715	Normal	EM2113872-AB	0.90	0.02	1.30	0.09	0.06	0.40	0.02	<0.02	<0.1	<0.02	0.14	0.02	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW230_211112	Normal	EM2123080	0.38	<0.01	0.55	0.03	0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
	18 Feb 2022	0937_SW230_220218	Normal	EM2202703	0.64	0.02	0.9	0.04	0.03	0.26	<0.02	<0.02	<0.1	0.79	0.74	0.12	<0.02	<0.02	<0.02
	30 May 2022	0937_SW230_220530	Normal	EM2210316	0.40	<0.01	0.59	0.02	<0.02	0.19	<0.02	<0.02	<0.1	0.52	0.30	0.06	<0.02	<0.02	<0.02
	22 Aug 2022	0937_SW230_220822_1620	Normal	EM2216498	1.06	0.03	1.68	0.13	0.09	0.62	0.03	<0.02	<0.1	0.18	0.25	0.04	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW230_220823_0855	Normal	EM2216498	0.70	0.02	1.18	0.10	0.07	0.48	0.02	<0.02	<0.1	0.09	0.15	<0.02	<0.02	<0.02	<0.02
		0937_SW230_220823_1115	Normal	EM2216498	0.70	0.02	1.14	0.11	0.06	0.44	0.02	<0.02	<0.1	0.09	0.17	0.02	<0.02	<0.02	<0.02
		0937_SW230_220823_1545	Normal	EM2216498	0.81	0.02	1.40	0.16	0.08	0.59	0.03	<0.02	<0.1	0.11	0.21	0.03	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW230_220824_0940	Normal	EM2216498	1.26	0.05	2.23	0.23	0.16	0.97	0.04	<0.02	0.2	0.24	0.40	0.05	<0.02	<0.02	<0.02
		0937_SW230_220824_1540	Normal	EM2216498	1.28	0.05	2.39	0.25	0.20	1.11	0.05	<0.02	0.2	0.26	0.43	0.05	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW230_220825_0855	Normal	EM2216498	1.46	0.06	2.80	0.31	0.22	1.34	0.07	<0.02	0.2	0.35	0.52	0.06	<0.02	<0.02	<0.02
		0937_SW230_220825_1545	Normal	EM2216498	1.56	0.07	3.00	0.32	0.25	1.44	0.07	<0.02	0.2	0.36	0.57	0.07	<0.02	<0.02	<0.02
	26 Aug 2022	0937_SW230_220826_0940	Normal	EM2216498	1.62	0.08	3.30	0.34	0.24	1.68	0.08	<0.02	0.2	0.34	0.63	0.08	<0.02	<0.02	<0.02
	29 Nov 2022	0937_SW230_221129	Normal	EM2223972	0.76	0.03	1.39	0.12	0.09	0.63	0.03	<0.02	0.1	0.50	0.64	0.07	<0.02	<0.02	<0.02
	15 Nov 2023	0937_QC105_231115	Field_D	EM2320952	0.42	0.01	0.63	0.03	0.02	0.21	<0.02	<0.02	<0.1	0.44	0.47	0.07	<0.02	<0.02	<0.02
		0937_QC205_231115	Interlab_D	1048259	0.42	0.01	0.61	0.03	0.02	0.19	<0.01	<0.01	0.06	0.47	0.43	0.05	<0.01	<0.01	<0.01
		0937_SW230_231115	Normal	EM2320952	0.42	0.01	0.66	0.03	0.02	0.24	<0.02	<0.02	<0.1	0.55	0.46	0.06	<0.02	<0.02	<0.02
SW231	13 Oct 2016	QCA296	Field_D	EM1612198	6.59	0.24	20.69	0.9	1.14	14.1	0.24	<0.05	<0.1	0.13	0.84	0.12	<0.05	<0.05	<0.05
		QCB297	Interlab_D	519950	6.9	0.17	15.6	0.76		8.7		<0.01	<0.1	0.14	1.1	0.09	<0.01	<0.01	<0.01
		SW231	Normal	EM1612198	9.04	0.2	23.54	0.85	1.12	14.5	0.3	<0.05	<0.1	0.12	0.88	0.12	<0.05	<0.05	<0.05
	26 Nov 2019	0937_SW231_191126	Normal	EM1920529	2.05	0.03	3.27	0.12	0.13	1.22	0.05	<0.02	<0.1	<0.02	0.21	<0.02	<0.02	<0.02	<0.02
	17 Mar 2020	0937_SW231_20200318	Normal	EM2004711	2.27	0.02	3.49	0.17	0.34	1.22	0.04	<0.02	<0.1	0.05	0.30	<0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW231_200616	Normal	EM2010514	4.02	0.09	6.24	0.28	0.27	2.22	0.10	<0.02	<0.1	<0.02	0.57	0.03	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW231_201110	Normal	EM2020050	4.73	0.04	6.13	0.12	0.14	1.40	0.08	<0.02	<0.1	0.03	0.29	<0.02	<0.02	<0.02	<0.02
	29 Jan 2021	0937_QC107_210129	Field_D	EM2101229	2.81	0.06	4.16	0.20	0.15	1.35	<0.04	<0.04	<0.2	<0.04	0.34	<0.04	<0.04	<0.04	<0.04
		0937_QC207_210128	Interlab_D	770470	3.1	0.06	5.4	0.20	0.18	2.3	0.08	<0.01	0.09	0.13	0.37	0.03	<0.01	<0.01	<0.01
		0937_SW231_210129	Normal	EM2101229	2.86	0.06	4.31	0.17	0.15	1.45	0.07	<0.02	0.1	0.11	0.34	0.03	<0.02	<0.02	<0.02
	26 Apr 2021	0937_ SW231 _20210426	Normal	EM2107858	4.12	0.04	5.07	0.08	0.07	0.95	0.09	<0.02	<0.1	0.02	0.16	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_SW231_210715	Normal	EM2113872-AB	0.12	<0.01	0.22	0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW231_211112	Normal	EM2123080	0.42	<0.01	0.55	0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02
	18 Feb 2022	0937_QC116_220218	Field_D	EM2202703	3.53	0.05	5.01	0.12	0.11	1.48	0.08	<0.02	<0.1	0.04	0.29	<0.02	<0.02	<0.02	<0.02
		0937_QC216_220218	Interlab_D	864735	3.6	0.06	4.8	0.1	0.12	1.2	0.06	<0.01	0.11	0.06	0.17	0.02	<0.01	<0.01	<0.01
		0937_SW231_220218	Normal	EM2202703	3.12	0.05	4.31	0.1	0.1	1.19	0.06	<0.02	<0.1	<0.02	0.16	<0.02	<0.02	<0.02	<0.02
	26 May 2022	0937_SW231_220526	Normal	EM2210316	4.65	0.16	9.98	0.46	0.62	5.33	0.21	<0.02	<0.1	0.21	0.82	0.07	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW231_220823	Normal	EM2216476	0.20	<0.01	0.31	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_SW231_221128	Normal	EM2223972	6.54	0.28	17.4	0.77	1.14	10.9	0.32	<0.02	<0.1	0.18	1.06	0.11	<0.02	<0.02	<0.02
	20 Nov 2023	0937_SW231_231120	Normal	EM2320952	6.13	0.18	12.4	0.45	0.69	6.27	0.27	<0.02	<0.1	0.11	0.72	0.07	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW233	13 Oct 2016	SW233	Normal	EM1612198	7.53	0.24	20.83	0.8	1.03	13.3	0.26	<0.05	<0.1	0.11	0.86	0.1	<0.05	<0.05	<0.05
	26 Nov 2019	0937_SW233_191126	Normal	EM1920529	1.24	0.01	1.92	0.09	0.08	0.68	0.04	<0.02	<0.1	0.02	0.13	<0.02	<0.02	<0.02	<0.02
	26 Mar 2020	0937_SW233_20200326	Normal	EM2005033	2.26	0.03	3.41	0.14	0.21	1.15	0.04	<0.02	<0.1	0.05	0.28	0.02	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW233_200616	Normal	EM2010514	2.18	0.03	3.04	0.14	0.12	0.86	0.04	<0.02	<0.1	<0.02	0.25	<0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0937_QC108_201110	Field_D	EM2020050	2.17	0.02	2.81	0.08	0.07	0.64	0.03	<0.02	<0.1	0.03	0.17	<0.02	<0.02	<0.02	<0.02
		0937_QC208_201110	Interlab_D	757178	2.9	0.04	3.62	0.09	0.08	0.72	0.03	<0.01	0.10	0.09	0.23	0.01	<0.01	<0.01	<0.01
		0937_SW233_201110	Normal	EM2020050	2.19	0.02	2.94	0.11	0.08	0.75	0.03	<0.02	<0.1	0.03	0.20	<0.02	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW233_210128	Normal	EM2101229	2.10	0.03	2.97	0.12	0.10	0.87	0.04	<0.02	<0.1	0.06	0.22	<0.02	<0.02	<0.02	<0.02
	26 Apr 2021	0937_ SW233 _20210426	Normal	EM2107858	1.11	0.02	1.74	0.13	0.06	0.63	0.02	<0.02	<0.1	0.03	0.17	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_SW233_210715	Normal	EM2113872-AB	1.78	0.09	4.96	0.40	0.36	3.18	0.09	<0.02	<0.1	0.10	0.47	0.04	<0.02	<0.02	<0.02
	15 Nov 2021	0937_SW233_211115	Normal	EM2123080	0.66	0.02	1.15	0.04	0.04	0.49	0.02	<0.02	<0.1	0.03	0.08	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_SW233_220217	Normal	EM2202703	2.8	0.1	5.9	0.46	0.4	3.1	0.12	<0.02	<0.1	0.13	0.66	0.05	<0.02	<0.02	<0.02
	26 May 2022	0937_SW233_220526	Normal	EM2210316	2.14	0.07	5.27	0.31	0.33	3.13	0.10	<0.02	<0.1	0.13	0.45	0.04	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW233_220825	Normal	EM2216476	1.03	0.02	1.85	0.06	0.08	0.82	0.03	<0.02	<0.1	0.02	0.08	<0.02	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW233_221124	Normal	EM2223510	3.35	0.09	6.23	0.24	0.28	2.88	0.12	<0.02	<0.1	0.06	0.37	0.03	<0.02	<0.02	<0.02
	16 Nov 2023	0937_SW233_231116	Normal	EM2320952	2.49	0.09	5.88	0.32	0.46	3.39	0.14	<0.02	<0.1	0.09	0.47	0.04	<0.02	<0.02	<0.02
SW238	13 Oct 2016	SW238	Normal	EM1612198	4.02	0.15	12.36	0.8	0.72	8.34	0.23	<0.05	<0.1	0.1	0.58	0.07	<0.05	<0.05	<0.05
	22 Nov 2019	0937_SW238_191122	Normal	EM1920034	2.62	0.04	3.52	0.11	0.10	0.90	0.06	<0.02	<0.1	0.15	0.28	0.05	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW238_20200616	Normal	EM2010514	1.50	0.02	2.22	0.10	0.10	0.72	0.03	<0.02	0.2	<0.02	0.19	<0.02	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW238	Normal	EM2020050	1.55	0.02	2.23	0.08	0.07	0.68	0.03	<0.02	<0.1	0.07	0.20	<0.02	<0.02	<0.02	<0.02
	29 Jan 2021	0937_SW238_210129	Normal	EM2101229	1.66	0.03	2.13	0.06	0.04	0.47	0.04	<0.02	<0.1	0.12	0.20	0.03	<0.02	<0.02	<0.02
	26 Apr 2021	0937_ SW238 _20210426	Normal	EM2107858	1.06	0.02	1.60	0.10	0.05	0.54	0.03	<0.02	<0.1	0.04	0.15	<0.02	<0.02	<0.02	<0.02
	15 Jul 2021	0937_QC118_210715	Field_D	EM2113872-AB	1.00	0.04	2.53	0.16	0.14	1.53	0.04	<0.02	<0.1	0.03	0.27	0.02	<0.02	<0.02	<0.02
		0937_SW238_210715	Normal	EM2113872-AB	0.75	0.04	1.97	0.17	0.13	1.22	0.04	<0.02	<0.1	<0.02	0.23	0.02	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW238_211112	Normal	EM2123080	1.02	0.02	1.38	0.04	0.04	0.36	<0.02	<0.02	<0.1	0.06	0.10	<0.02	<0.02	<0.02	<0.02
	18 Feb 2022	0937_QC118_220218	Field_D	EM2202703	3.63	0.11	7.49	0.46	0.42	3.86	0.14	<0.02	0.1	0.19	0.98	0.07	<0.02	<0.02	<0.02
		0937_QC218_220218	Interlab_D	864735	4.1	0.15	7.7	0.39	0.51	3.6	0.12	<0.01	0.18	0.2	0.62	0.07	<0.01	<0.01	<0.01
		0937_SW238_220218	Normal	EM2202703	3.25	0.11	6.68	0.4	0.41	3.43	0.12	<0.02	<0.1	0.18	0.74	0.05	<0.02	<0.02	<0.02
	26 May 2022	0937_SW238_220526	Normal	EM2210316	1.38	0.06	3.67	0.24	0.27	2.29	0.07	<0.02	<0.1	0.11	0.38	0.04	<0.02	<0.02	<0.02
	22 Aug 2022	0937_SW238_220822_1500	Normal	EM2216498	0.92	0.03	2.18	0.13	0.13	1.26	0.04	<0.02	<0.1	0.03	0.16	0.02	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW238_220823_0755	Normal	EM2216498	0.21	<0.01	0.32	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		0937_SW238_220823_1035	Normal	EM2216498	0.27	<0.01	0.54	0.03	0.03	0.27	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
		0937_SW238_220823_1505	Normal	EM2216498	0.33	<0.01	0.48	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW238_220824_0900	Normal	EM2216498	1.26	0.04	2.46	0.12	0.14	1.20	0.05	<0.02	<0.1	0.04	0.18	<0.02	<0.02	<0.02	<0.02
		0937_SW238_220824_1505	Normal	EM2216498	1.20	0.03	2.11	0.09	0.10	0.91	0.04	<0.02	<0.1	0.03	0.14	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW238_220825_0815	Normal	EM2216498	0.94	0.02	1.58	0.11	0.07	0.64	0.04	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02
		0937_SW238_220825_1510	Normal	EM2216498	0.85	0.02	1.48	0.07	0.08	0.63	0.03	<0.02	<0.1	0.02	0.09	<0.02	<0.02	<0.02	<0.02
	26 Aug 2022	0937_SW238_220826_0910	Normal	EM2216498	0.81	0.02	1.49	0.08	0.07	0.68	0.03	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_SW238_221128	Normal	EM2223972	2.74	0.08	5.68	0.25	0.31	2.94	0.09	<0.02	<0.1	0.07	0.32	0.06	<0.02	<0.02	<0.02
	20 Nov 2023	0937_SW238_231120	Normal	EM2320952	1.78	0.07	4.38	0.32	0.37	2.60	0.10	<0.02	<0.1	0.07	0.39	0.04	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW239	13 Oct 2016	SW239	Normal	EM1612198	9.57	0.24	16.83	0.6	0.67	7.26	0.35	<0.02	<0.1	0.1	0.5	0.12	<0.02	<0.02	<0.02
	26 Nov 2019	0937_SW239_191126	Normal	EM1920529	2.98	0.03	3.42	0.04	0.04	0.44	0.06	<0.02	<0.1	0.16	0.40	0.04	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW239_20200616	Normal	EM2010514	5.12	0.13	7.17	0.17	0.23	2.05	0.18	0.03	0.2	0.68	0.84	0.14	<0.02	<0.02	<0.02
	10 Nov 2020	0937_SW239_201110	Normal	EM2020050	12.7	0.21	16.6	0.46	0.51	3.92	0.39	0.03	<0.1	0.28	0.83	0.13	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW239_210128	Normal	EM2101229	2.12	0.04	2.79	0.07	0.05	0.67	0.05	<0.02	<0.1	0.31	0.47	0.08	<0.02	<0.02	<0.02
	26 Apr 2021	0937_QC105_20210426	Field_D	EM2107858	4.56	0.08	6.22	0.16	0.15	1.66	0.14	0.04	0.1	0.24	0.43	0.06	<0.02	<0.02	<0.02
		0937_ SW239 _20210426	Normal	EM2107858	3.68	0.08	5.17	0.16	0.13	1.49	0.12	0.02	0.1	0.27	0.44	0.07	<0.02	<0.02	<0.02
		QC205_20210426	Interlab_D	792537	6.7	0.09	8.9	0.20	0.26	2.2	0.09	<0.01	0.09	0.33	0.54	0.09	<0.01	<0.01	<0.01
	15 Jul 2021	0937_SW239_210715	Normal	EM2113872-AB	2.55	0.07	4.06	0.24	0.21	1.51	0.10	<0.02	<0.1	<0.02	0.42	0.04	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW239_211112	Normal	EM2123080	0.34	<0.01	0.48	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_SW239_220217	Normal	EM2202703	3.78	0.09	5.51	0.3	0.22	1.73	0.11	<0.02	<0.1	0.33	0.66	0.08	<0.02	<0.02	<0.02
	26 May 2022	0937_SW239_220526	Normal	EM2210316	7.06	0.22	12.1	0.76	0.84	5.04	0.31	<0.02	<0.1	0.30	0.94	0.15	<0.02	<0.02	<0.02
	22 Aug 2022	0937_SW239_220822_1440	Normal	EM2216498	6.32	0.15	9.92	0.49	0.46	3.60	0.25	<0.02	<0.1	0.25	0.60	0.11	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW239_220823_0730	Normal	EM2216498	2.39	0.04	3.28	0.12	0.10	0.89	0.06	<0.02	<0.1	0.10	0.15	0.03	<0.02	<0.02	<0.02
		0937_SW239_220823_1005	Normal	EM2216498	3.08	0.05	4.31	0.14	0.14	1.23	0.08	<0.02	<0.1	0.12	0.21	0.04	<0.02	<0.02	<0.02
		0937_SW239_220823_1440	Normal	EM2216498	4.16	0.08	5.92	0.23	0.22	1.76	0.13	<0.02	<0.1	0.15	0.31	0.05	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW239_220824_0830	Normal	EM2216498	2.02	0.05	3.30	0.17	0.18	1.28	0.08	<0.02	<0.1	0.08	0.25	0.03	<0.02	<0.02	<0.02
		0937_SW239_220824_1430	Normal	EM2216498	2.24	0.06	3.72	0.18	0.20	1.48	0.08	<0.02	<0.1	0.09	0.26	0.04	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW239_220825_0745	Normal	EM2216498	3.13	0.08	4.96	0.24	0.27	1.83	0.13	<0.02	<0.1	0.13	0.35	0.05	<0.02	<0.02	<0.02
		0937_SW239_220825_1455	Normal	EM2216498	3.98	0.10	6.33	0.32	0.35	2.35	0.16	<0.02	<0.1	0.16	0.42	0.07	<0.02	<0.02	<0.02
	26 Aug 2022	0937_SW239_220826_0830	Normal	EM2216498	5.67	0.16	9.77	0.50	0.52	4.10	0.25	<0.02	<0.1	0.22	0.57	0.11	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW239_221124	Normal	EM2223510	5.95	0.13	8.82	0.42	0.38	2.87	0.18	<0.02	<0.1	0.21	0.51	0.09	<0.02	<0.02	<0.02
	17 Nov 2023	0937_SW239_231117	Normal	EM2320952	13.8	0.30	19.3	0.66	0.70	5.50	0.51	0.17	<0.2	0.20	0.90	0.16	<0.03	<0.03	<0.03
SW242	12 Oct 2016	SW242	Normal	EM1612198	0.6	<0.01	0.7	<0.02	<0.02	0.1	0.2	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	13 Jul 2021	0937_QC209_210713	Interlab_D	811260	1.0	0.02	1.27	0.04	0.03	0.27	0.02	<0.01	0.09	0.05	0.06	<0.01	<0.01	<0.01	<0.01
	14 Jul 2021	0937_QC109_210714	Field_D	EM2113872-AB	0.76	0.01	1.00	0.06	<0.02	0.24	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02
		0937_SW242_210714	Normal	EM2113872-AB	0.74	0.01	0.94	0.21	0.02	0.20	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW242_211112	Normal	EM2123080	1.45	<0.01	1.60	<0.02	<0.02	0.15	<0.02	0.03	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW242_220824	Normal	EM2216476	0.43	<0.01	0.59	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.03	0.03	<0.02	<0.02	<0.02	<0.02
	23 Nov 2022	0937_QC204_221123	Interlab_D	945182	1.7	0.02	2.02	0.03	0.02	0.32	0.03	<0.01	<0.05	0.03	0.05	0.01	<0.01	<0.01	<0.01
		0937_SW242_221123	Normal	EM2223510	1.25	0.02	1.53	0.07	0.03	0.28	<0.02	<0.02	<0.1	0.04	0.05	<0.02	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW246	18 Mar 2020	0937_SW246_20200318	Normal	EM2004711	0.66	0.02	0.98	0.03	0.05	0.32	0.02	<0.02	<0.1	0.04	0.11	0.05	<0.02	<0.02	<0.02
	17 Jun 2020	0937_SW246_200617	Normal	EM2010514	0.67	0.02	1.19	0.07	0.06	0.52	0.02	<0.02	<0.1	0.05	0.14	0.05	<0.02	<0.02	<0.02
	13 Nov 2020	0937_SW246_201111	Normal	EM2020050	0.92	0.02	1.48	0.07	0.05	0.56	0.02	<0.02	<0.1	0.05	0.15	0.07	<0.02	<0.02	<0.02
	01 Feb 2021	0937_SW246_210201	Normal	EM2101575	0.43	<0.01	0.66	0.03	<0.02	0.23	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
	27 Apr 2021	0937_QC107_20210427	Field_D	EM2107858	0.72	0.02	1.27	0.08	0.06	0.55	<0.02	<0.02	<0.1	0.05	0.13	0.04	<0.02	<0.02	<0.02
		0937_ SW246_20210427	Normal	EM2107858	0.46	0.02	0.88	0.06	0.04	0.42	<0.02	<0.02	<0.1	0.04	0.13	0.04	<0.02	<0.02	<0.02
		QC207_20210427	Interlab_D	792537	0.93	0.03	1.48	0.07	0.06	0.55	0.01	<0.01	0.06	0.09	0.12	0.04	<0.01	<0.01	<0.01
	04 Aug 2021	0937_SW246_210804	Normal	EM2115476	0.52	0.02	0.88	0.06	0.03	0.36	<0.02	<0.02	<0.1	0.03	0.11	<0.02	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW246_211112	Normal	EM2123080	0.58	0.01	1.02	0.06	0.04	0.44	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02
	30 May 2022	0937_SW246_220530	Normal	EM2210316	0.53	0.02	0.99	0.05	0.05	0.46	0.02	<0.02	<0.1	1.25	0.66	0.37	<0.02	<0.02	<0.02
	22 Aug 2022	0937_SW246_220822_1615	Normal	EM2216498	0.35	0.01	0.59	0.06	0.03	0.24	<0.02	<0.02	<0.1	0.10	0.12	0.06	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW246_220823_0855	Normal	EM2216498	0.15	<0.01	0.28	0.03	<0.02	0.13	<0.02	<0.02	<0.1	0.05	0.06	0.02	<0.02	<0.02	<0.02
		0937_SW246_220823_1115	Normal	EM2216498	0.16	<0.01	0.32	0.04	<0.02	0.16	<0.02	<0.02	<0.1	0.07	0.08	0.03	<0.02	<0.02	<0.02
		0937_SW246_220823_1455	Normal	EM2216498	0.18	0.01	0.37	0.03	0.02	0.19	<0.02	<0.02	<0.1	0.07	0.09	0.03	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW246_220824_0940	Normal	EM2216498	0.29	0.02	0.58	0.06	0.04	0.29	<0.02	<0.02	<0.1	0.08	0.12	0.03	<0.02	<0.02	<0.02
		0937_SW246_220824_1540	Normal	EM2216498	0.28	0.02	0.54	0.07	0.04	0.26	<0.02	<0.02	<0.1	0.08	0.11	0.03	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW246_220825_0855	Normal	EM2216498	0.25	0.02	0.51	0.06	0.04	0.26	<0.02	<0.02	<0.1	0.08	0.11	0.03	<0.02	<0.02	<0.02
		0937_SW246_220825_1545	Normal	EM2216498	0.25	0.02	0.52	0.05	0.03	0.27	<0.02	<0.02	<0.1	0.08	0.10	0.03	<0.02	<0.02	<0.02
	26 Aug 2022	0937_SW246_220826_0940	Normal	EM2216498	0.25	0.02	0.57	0.08	0.04	0.32	<0.02	<0.02	<0.1	0.07	0.13	0.04	<0.02	<0.02	<0.02
	29 Nov 2022	0937_SW246_221129	Normal	EM2223972	0.57	0.02	1.00	0.06	0.05	0.43	<0.02	<0.02	0.1	1.03	1.56	0.21	<0.02	<0.02	<0.02
	15 Nov 2023	0937_SW246_231115	Normal	EM2320952	0.97	0.04	1.58	0.07	0.07	0.61	0.04	<0.02	0.1	1.22	1.10	0.33	<0.02	<0.02	<0.02
SW251	13 Oct 2016	SW251	Normal	EM1612198	1.12	<0.01	11.42	0.37	0.44	4.31	0.13	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
					6.79	0.15		0.54	0.55	4.63	0.21			0.08	0.32	0.07			
	22 Nov 2019	0937_SW251_191122	Normal	EM1920034	3.37	0.07	4.32	0.06	0.08	0.95	0.09	<0.02	<0.1	0.43	0.55	0.15	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW251_20200320	Normal	EM2004711	0.76	0.02	1.06	0.04	0.05	0.30	<0.02	<0.02	<0.1	0.06	0.11	0.02	<0.02	<0.02	<0.02
	17 Jun 2020	0937_SW251_200617	Normal	EM2010514	0.54	0.02	0.83	0.04	0.03	0.29	<0.02	<0.02	<0.1	0.03	0.10	0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW251_201112	Normal	EM2020050	1.78	0.02	2.32	0.07	0.04	0.54	0.04	<0.02	<0.1	0.21	0.26	0.06	<0.02	<0.02	<0.02
	29 Jan 2021	0937_SW251_210129	Normal	EM2101229	0.11	<0.01	0.16	0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ SW251 _20210420	Normal	EM2107085	0.47	0.02	0.97	0.12	0.05	0.50	0.02	<0.02	<0.1	0.06	0.19	0.02	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW251_210805	Normal	EM2115476	2.19	0.05	3.13	0.12	0.10	0.94	0.06	<0.02	<0.1	0.05	0.21	0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_SW251_211116	Normal	EM2123080	1.74	0.05	2.65	0.10	0.11	0.91	0.05	<0.02	<0.1	0.08	0.17	0.03	<0.02	<0.02	<0.02
	21 Feb 2022	0937_SW251_220221	Normal	EM2203247	4.64	0.24	9.88	0.72	0.71	5.24	0.32	<0.02	0.2	0.52	1.25	0.21	<0.02	<0.02	<0.02
	31 May 2022	0937_SW251_220530	Normal	EM2210316	5.92	0.22	12.8	0.85	0.82	6.87	0.30	<0.02	0.1	0.52	1.28	0.22	<0.02	<0.02	<0.02
	22 Aug 2022	0937_SW251_220822_1600	Normal	EM2216498	2.56	0.07	4.05	0.20	0.18	1.49	0.09	<0.02	<0.1	0.11	0.26	0.04	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW251_220823_1615	Normal	EM2216498	2.90	0.06	4.07	0.16	0.15	1.17	0.09	<0.02	<0.1	0.11	0.23	0.04	<0.02	<0.02	<0.02
		0937_SW251_220823_2215	Normal	EM2216498	1.80	0.04	2.77	0.10	0.11	0.97	0.05	<0.02	<0.1	0.08	0.16	0.03	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW251_220824_0415	Normal	EM2216498	1.35	0.03	1.92	0.07	0.08	0.57	0.04	<0.02	<0.1	0.05	0.12	<0.02	<0.02	<0.02	<0.02
		0937_SW251_220824_1615	Normal	EM2216498	1.35	0.03	1.94	0.07	0.08	0.59	0.04	<0.02	<0.1	0.05	0.11	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW251_220825_1650	Normal	EM2216498	1.77	0.05	3.29	0.17	0.15	1.52	0.07	<0.02	<0.1	0.07	0.24	0.03	<0.02	<0.02	<0.02
	26 Aug 2022	0937_SW251_220823_1320	Normal	EM2216498	1.77	0.05	3.15	0.15	0.14	1.38	0.07	<0.02	<0.1	0.06	0.21	0.03	<0.02	<0.02	<0.02
	30 Nov 2022	0937_SW251_221130	Normal	EM2223972	2.80	0.11	6.05	0.38	0.42	3.25	0.13	<0.02	<0.1	0.18	0.50	0.08	<0.02	<0.02	<0.02
	15 Nov 2023	0937_QC107_231115	Field_D	EM2320952	6.15	0.17	9.45	0.50	0.48	3.30	0.27	<0.02	<0.1	0.15	0.58	0.12	<0.02	<0.02	<0.02
		0937_QC207_231115	Interlab_D	1048259	6.4	0.16	9.4	0.40	0.40	3.0	0.19	<0.01	0.09	0.17	0.51	0.08	<0.01	<0.01	<0.01
		0937_SW251_231115	Normal	EM2320952	4.74	0.16	8.06	0.41	0.49	3.32	0.20	<0.02	<0.1	0.18	0.58	0.10	<0.02	<0.02	<0.02

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW252	12 Oct 2016	QCA300	Field_D	EM1612198	3.92	0.16	6.41	0.21	0.16	2.49	0.19	<0.02	<0.1	<0.02	0.18	0.04	<0.02	<0.02	<0.02
		QCB301	Interlab_D	519950	3.9	<0.3	6	<0.3		2.1		<0.3	<1.5	<0.3	0.3	<0.3	<0.3	<0.3	<0.3
		SW252	Normal	EM1612198	3.57	0.15	6.13	0.21	0.18	2.56	0.14	<0.02	<0.1	<0.02	0.22	0.04	<0.02	<0.02	<0.02
	17 Jun 2020	0937_QC102_200617	Field_D	EM2010514	2.52	<0.05	2.86	0.07	<0.05	0.34	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
		0937_QC202_200617	Interlab_D	726765	1.5	0.01	1.72	0.03	0.02	0.22	0.02	<0.01	<0.05	0.01	0.03	<0.01	<0.01	<0.01	<0.01
		0937_SW252_200617	Normal	EM2010514	2.11	<0.05	2.43	0.05	<0.05	0.32	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05
	15 Jul 2021	0937_SW252_210715	Normal	EM2113872-AB	0.50	<0.01	0.55	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	16 Nov 2021	0937_SW252_211116	Normal	EM2123080	0.41	<0.01	0.56	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	0.03	0.03	<0.02	<0.02	<0.02	<0.02
	25 Aug 2022	0937_SW252_220825	Normal	EM2216476	0.26	<0.01	0.39	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_SW252_221129	Normal	EM2223972	0.86	0.02	1.15	0.03	<0.02	0.29	0.03	<0.02	<0.1	0.02	0.04	<0.02	<0.02	<0.02	<0.02
	15 Nov 2023	0937_QC104_231115	Field_D	EM2320952	0.61	0.01	0.76	0.05	<0.02	0.15	0.02	<0.02	<0.1	0.04	0.04	<0.02	<0.02	<0.02	<0.02
		0937_QC204_231115	Interlab_D	1048259	0.60	<0.01	0.75	0.02	0.01	0.15	0.01	<0.01	<0.05	0.03	0.03	<0.01	<0.01	<0.01	<0.01
		0937_SW252_231115	Normal	EM2320952	0.60	<0.01	0.77	<0.02	<0.02	0.17	<0.02	<0.02	<0.1	0.05	0.03	<0.02	<0.02	<0.02	<0.02
SW256	13 Oct 2016	SW256	Normal	EM1612198	10.1	0.18	17.85	0.42	0.61	7.75	0.29	<0.02	<0.1	0.08	0.43	0.09	<0.02	<0.02	<0.02
	16 Jun 2020	0937_SW256_20200616	Normal	EM2010514	3.62	0.09	4.94	0.12	0.15	1.32	0.08	0.03	0.2	0.41	0.59	0.10	<0.02	<0.02	<0.02
	10 Nov 2020	0937_QC104_201110	Field_D	EM2020050	5.30	0.18	9.26	0.47	0.48	3.96	0.23	<0.02	<0.1	0.44	0.90	0.14	<0.02	<0.02	<0.02
		0937_QC204_201110	Interlab_D	757178	10	0.30	16.2	0.52	0.66	6.2	0.21	0.06	0.20	0.55	1.1	0.17	<0.01	<0.01	<0.01
		0937_SW256_201110	Normal	EM2020050	5.61	0.18	9.73	0.47	0.49	4.12	0.22	<0.02	<0.1	0.43	0.93	0.14	<0.02	<0.02	<0.02
	28 Jan 2021	0937_SW256_210128	Normal	EM2101229	4.55	0.08	5.93	0.11	0.13	1.38	0.12	0.12	0.1	0.57	0.60	0.14	<0.02	<0.02	<0.02
	26 Apr 2021	0937_QC102_20210426	Field_D	EM2107858	4.36	0.16	7.03	0.28	0.23	2.67	0.18	0.04	0.1	0.33	0.82	0.12	<0.02	<0.02	<0.02
		0937_ SW256_20210426	Normal	EM2107858	3.84	0.15	6.50	0.24	0.24	2.66	0.17	0.04	0.1	0.30	0.74	0.11	<0.02	<0.02	<0.02
		QC202_20210426	Interlab_D	792537	3.3	0.16	6	0.25	0.29	2.7	0.08	<0.01	0.12	0.44	0.74	0.11	<0.01	<0.01	<0.01
	14 Jul 2021	0937_QC115_210714	Field_D	EM2113872-AB	2.24	0.07	4.17	0.20	0.18	1.93	0.08	<0.02	<0.1	0.07	0.37	0.04	<0.02	<0.02	<0.02
		0937_QC215_210714	Interlab_D	811260	2.5	0.08	4.3	0.22	0.32	1.8	0.10	<0.01	0.10	0.12	0.40	0.04	<0.01	<0.01	<0.01
		0937_SW256_210714	Normal	EM2113872-AB	1.79	0.06	3.41	0.23	0.19	1.62	0.07	<0.02	<0.1	0.03	0.29	0.04	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW256_211112	Normal	EM2123080	1.04	0.02	1.37	0.03	0.03	0.33	0.02	<0.02	<0.1	0.05	0.09	<0.02	<0.02	<0.02	<0.02
	17 Feb 2022	0937_SW256_220217	Normal	EM2202703	4.01	0.17	7.34	0.44	0.43	3.33	0.13	<0.02	0.1	0.31	1.05	0.08	<0.02	<0.02	<0.02
	26 May 2022	0937_SW256_220526	Normal	EM2210316	2.11	0.06	5.01	0.32	0.32	2.90	0.10	<0.02	<0.1	0.12	0.46	0.04	<0.02	<0.02	<0.02
	24 Aug 2022	0937_SW256_220824	Normal	EM2216476	1.00	0.04	1.96	0.11	0.10	0.96	0.03	<0.02	<0.1	0.05	0.16	<0.02	<0.02	<0.02	<0.02
	29 Nov 2022	0937_SW256_221128	Normal	EM2223972	2.13	0.09	5.20	0.25	0.31	3.07	0.09	<0.02	<0.1	0.08	0.36	0.04	<0.02	<0.02	<0.02
	23 Nov 2023	0937_SW256_231123	Normal	EM2320952	6.12	0.26	11.6	0.71	0.94	5.46	0.30	<0.04	<0.2	0.26	0.93	0.15	<0.04	<0.04	<0.04
SW257	13 Oct 2016	SW257	Normal	EM1612198	7.68	0.2	14.44	0.54	0.58	6.76	0.27	<0.02	<0.1	0.07	0.41	0.1	<0.02	<0.02	<0.02
	22 Nov 2019	0937_SW257_191122	Normal	EM1920039	4.94	0.11	6.36	0.11	0.12	1.42	0.10	<0.02	0.1	0.72	0.77	0.15	<0.02	<0.02	<0.02
	17 Jun 2020	0937_SW257_20200617	Normal	EM2010514	3.62	0.08	4.87	0.11	0.15	1.25	0.09	<0.02	0.1	0.22	0.50	0.09	<0.02	<0.02	<0.02
	23 Jun 2020	0937_SW257_200623	Normal	EM2010697	3.03	0.04	3.72	0.07	0.07	0.69	0.06	0.03	<0.1	0.20	0.30	0.05	<0.02	<0.02	<0.02
	11 Nov 2020	0937_SW257_201111	Normal	EM2020050	7.38	0.11	9.44	0.23	0.24	2.06	0.14	0.17	<0.1	0.32	0.59	0.08	<0.02	<0.02	<0.02
	28 Jan 2021	0937_QC209_210128	Interlab_D	770470	2.5	0.05	3.43	0.09	0.10	0.93	0.05	<0.01	0.08	0.45	0.37	0.08	<0.01	<0.01	<0.01
	29 Jan 2021	0937_QC109_210129	Field_D	EM2101229	2.38	0.06	3.43	0.12	0.09	1.05	0.07	<0.02	<0.1	0.36	0.44	0.09	<0.02	<0.02	<0.02
		0937_SW257_210129	Normal	EM2101229	2.48	0.05	3.50	0.10	0.10	1.02	0.07	<0.02	0.1	0.37	0.45	0.11	<0.02	<0.02	<0.02
	28 Apr 2021	0937_ SW257_202105	Normal	EM2107858	3.51	0.12	6.27	0.29	0.24	2.76	0.15	<0.02	0.1	0.37	0.68	0.14	<0.02	<0.02	<0.02
	15 Jul 2021	0937_SW257_210715	Normal	EM2113872-AB	2.02	0.08	3.72	0.22	0.21	1.70	0.08	<0.02	<0.1	<0.02	0.37	0.05	<0.02	<0.02	<0.02
	12 Nov 2021	0937_SW257_211112	Normal	EM2123080	1.15	0.02	1.52	0.05	0.04	0.37	<0.02	<0.02	<0.1	0.06	0.09	<0.02	<0.02	<0.02	<0.02
	18 Feb 2022	0937_QC111_220218	Field_D	EM2202703	9.53	0.3	16.1	0.83	0.78	6.58	0.41	<0.02	0.2	0.43	1.8	0.23	<0.02	<0.02	<0.02
		0937_QC211_220218	Interlab_D	864735	12	0.41	17.3	0.72	0.97	5.3	0.42	<0.01	0.25	0.42	1.1	0.21	<0.01	<0.01	<0.01
		0937_SW257_220218	Normal	EM2202703	7.84	0.3	12.8	0.77	0.83	4.91	0.35	<0.02	<0.1	0.37	1.41	0.19	<0.02	<0.02	<0.02
	25 May 2022	0937_QC112_220525	Field_D	EM2210316	6.18	0.23	11.9	0.98	0.91	5.68	0.32	<0.02	0.1	0.40	1.25	0.20	<0.02	<0.02	<0.02
		0937_QC212_220525	Interlab_D	893740	6.8	0.24	12.4	0.69	0.95	5.6	0.46	<0.01	0.14	0.32	0.88	0.16	<0.01	<0.01	<0.01
	26 May 2022	0937_SW257_220525	Normal	EM2210316	8.35	0.24	14.9	0.94	0.90	6.52	0.36	0.03	0.1	0.41	1.22	0.19	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW257_220823	Normal	EM2216476	0.97	0.02	1.48	0.08	0.06	0.51	0.03	<0.02	<0.1	0.05	0.11	<0.02	<0.02	<0.02	<0.02
	23 Nov 2022	0937_SW257_221123	Normal	EM2223510	1.47	0.04	2.51	0.13	0.12	1.04	0.06	<0.02	<0.1	0.06	0.17	0.03	<0.02	<0.02	<0.02
	20 Nov 2023	0937_SW257_231120	Normal	EM2320952	5.40	0.26	11.0	0.80	0.97	5.56	0.34	<0.02	<0.1	0.27	0.98	0.16	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					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
LOR					0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water						0.56	0.07												
PFAS NEMP 2.0 Table 1 Health Recreational Water						10	2												
PFAS NEMP 2.0 Table 5 Freshwater 99%					0.00023	19													
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW258	13 Oct 2016	SW258	Normal	EM1612198	7.57	0.14	12.38	0.35	0.42	4.81	0.21	<0.02	<0.1	0.06	0.34	0.07	<0.02	<0.02	<0.02
	22 Nov 2019	0937_SW258_191122	Normal	EM1920039	5.97	0.08	7.00	0.06	0.08	1.03	0.22	0.02	<0.1	0.42	0.58	0.12	<0.02	<0.02	<0.02
	20 Mar 2020	0937_SW258_20200318	Normal	EM2004711	4.96	0.07	5.93	0.08	0.18	0.97	0.08	0.04	<0.1	0.35	0.50	0.10	<0.02	<0.02	<0.02
	15 Jun 2020	0937_SW258_20200615	Normal	EM2010514	3.28	0.05	4.13	0.08	0.10	0.85	0.06	0.13	0.2	0.14	0.31	0.06	<0.02	<0.02	<0.02
	09 Nov 2020	0937_SW258_201109	Normal	EM2020050	2.62	0.04	3.52	0.09	0.08	0.90	0.06	<0.02	<0.1	0.13	0.26	0.04	<0.02	<0.02	<0.02
	29 Jan 2021	0937_SW258_210129	Normal	EM2101229	2.59	0.03	3.15	0.07	0.04	0.56	0.05	<0.02	0.1	0.13	0.23	0.05	<0.02	<0.02	<0.02
	20 Apr 2021	0937_ SW258 _20210420	Normal	EM2107085	2.88	0.06	3.95	0.12	0.12	1.07	0.08	<0.02	<0.1	0.22	0.38	0.08	<0.02	<0.02	<0.02
	05 Aug 2021	0937_SW258_210805	Normal	EM2115476	1.67	0.06	3.16	0.21	0.16	1.49	0.06	<0.02	<0.1	0.08	0.24	0.03	<0.02	<0.02	<0.02
	16 Nov 2021	0937_QC115_211116	Field_D	EM2123080	2.44	0.07	4.02	0.16	0.21	1.58	0.09	<0.02	<0.1	0.13	0.30	0.05	<0.02	<0.02	<0.02
		0937_QC215_211116	Interlab_D	842318	3.7	0.09	5.3	0.22	0.25	1.6	0.09	<0.01	0.10	0.11	0.35	0.05	<0.01	<0.01	<0.01
		0937_SW258_211116	Normal	EM2123080	2.34	0.08	3.77	0.15	0.21	1.43	0.08	<0.02	<0.1	0.13	0.28	0.04	<0.02	<0.02	<0.02
	21 Feb 2022	0937_SW258_220221	Normal	EM2203247	6.05	0.27	11.2	0.72	0.85	5.18	0.38	<0.02	0.2	0.53	1.31	0.22	<0.02	<0.02	<0.02
	30 May 2022	0937_SW258_220530	Normal	EM2210316	5.95	0.24	12.6	0.98	0.90	6.62	0.31	<0.02	0.1	0.52	1.35	0.22	<0.02	<0.02	<0.02
	02 Sep 2022	0937_SW258_220902	Normal	EM2217000	4.41	0.16	8.90	0.61	0.61	4.49	0.23	<0.02	<0.1	0.32	0.97	0.13	<0.02	<0.02	<0.02
	23 Nov 2022	0937_SW258_221123	Normal	EM2223510	1.86	0.04	2.86	0.11	0.11	1.00	0.05	0.03	<0.1	0.06	0.18	0.03	<0.02	<0.02	<0.02
	16 Nov 2023	0937_QC114_231116	Field_D	EM2320952	4.65	0.16	8.24	0.58	0.55	3.59	0.21	<0.02	<0.1	0.19	0.69	0.12	<0.02	<0.02	<0.02
		0937_QC214_231116	Interlab_D	1048259	4.8	0.15	8.1	0.50	0.64	3.3	0.22	<0.01	0.10	0.20	0.64	0.09	<0.01	<0.01	<0.01
		0937_SW258_231116	Normal	EM2320952	4.25	0.16	8.07	0.51	0.63	3.82	0.23	<0.02	<0.1	0.22	0.71	0.12	<0.02	<0.02	<0.02
SW277	26 Oct 2016	OSW010	Normal	EM1612993	0.27	0.004	0.471	0.022	0.018	0.201	0.007	<0.002	<0.01	0.006	0.051	0.004	<0.002	<0.002	<0.002
		QCA405	Field_D	EM1612868	0.182	0.005	0.385	0.026	0.02	0.203	0.007	<0.002	<0.01	0.006	0.054	0.004	<0.002	<0.002	<0.002
		QCB406	Interlab_D	521935	0.33	<0.01	0.44	0.02		0.11		<0.01	<0.05	0.02	0.13	<0.01	<0.01	<0.01	<0.01
	04 Dec 2019	0937_SW010_191204	Normal	EM1920784	0.20	0.02	0.50	0.02	0.02	0.30	<0.02	<0.02	<0.1	0.03	0.22	<0.02	<0.02	<0.02	<0.02
	19 Mar 2020	0937_SW277_20200319	Normal	EM2004706	0.23	<0.01	0.47	0.04	0.07	0.24	<0.02	<0.02	<0.1	0.08	0.38	0.03	<0.02	<0.02	<0.02
	18 Jun 2020	0937_SW277_200618	Normal	EM2010381	0.20	0.01	0.43	0.04	0.04	0.23	<0.02	<0.02	<0.1	0.04	0.27	0.02	<0.02	<0.02	<0.02
	12 Nov 2020	0937_SW277_201112	Normal	EM2020047	1.18	<0.01	1.32	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02
	02 Feb 2021	0937_SW277_210202	Normal	EM2101562	0.21	<0.01	0.36	<0.02	0.02	0.15	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02
	29 Apr 2021	0937_SW277_20210429	Normal	EM2107855	0.28	<0.01	0.51	0.05	0.02	0.23	<0.02	<0.02	<0.1	0.04	0.23	0.02	<0.02	<0.02	<0.02
	04 Aug 2021	0937_SW277_210804	Normal	EM2115483	1.26	<0.01	1.32	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	10 Nov 2021	0937_SW277_211110	Normal	EM2123004	0.13	<0.01	0.15	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	22 Feb 2022	0937_SW277_220222	Normal	EM2203194	0.50	<0.01	0.61	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02
	27 May 2022	0937_SW277_220527	Normal	EM2210252	1.48	<0.01	1.62	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02
	31 Aug 2022	0937_SW277_220831	Normal	EM2216996	1.45	0.01	1.58	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
	21 Nov 2023	0937_SW277_231121	Normal	EM2320910	0.27	<0.01	0.31	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW351	15 Nov 2023	0937_SW351_231115	Normal	EM2320952	0.70	0.02	0.93	0.04	0.02	0.23	<0.02	<0.02	0.1	0.53	0.55	0.12	<0.02	<0.02	<0.02
SW353	13 Jul 2021	0937_SW353_210713	Normal	EM2113872-AB	1.51	0.11	3.94	0.49	0.35	2.43	0.10	<0.02	0.1	0.20	0.63	0.07	<0.02	<0.02	<0.02
	15 Nov 2021	0937_SW353_211115	Normal	EM2123080	9.16	0.21	13.1	0.58	0.49	3.91	0.29	0.03	0.5	0.54	0.78	0.08	<0.02	<0.02	<0.02
	23 Aug 2022	0937_SW353_220823	Normal	EM2216476	7.37	0.11	10.1	0.44	0.25	2.70	0.19	0.04	0.3	0.27	0.36	0.04	<0.02	<0.02	<0.02
	24 Nov 2022	0937_SW353_221124	Normal	EM2223510	13.0	0.18	16.8	0.49	0.33	3.79	0.32	0.05	0.2	0.16	0.44	0.07	<0.02	<0.02	<0.02

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW001	**01 Jun 2016**	**OSW001**	**Normal**	**EM1606490**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32
	26 Oct 2016	**OSW001**	**Normal**	**EM1612997**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	0.014	<0.005	<0.005	2.33
	03 Dec 2019	**0937_SW001_191203**	**Normal**	**EM1920790**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.52
	20 Mar 2020	**0937_SW001_20200320**	**Normal**	**EM2004707**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.55
	23 Jun 2020	**0937_SW001_20200623**	**Normal**	**EM2010693**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.51
	13 Nov 2020	**0937_SW001_201113**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.69
	04 Feb 2021	**0937_SW001_210204**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.56
	29 Apr 2021	**0937_SW001_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12
	06 Aug 2021	**0937_SW001_210806**	**Normal**	**EM2115478**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16
	24 Feb 2022	**0937_SW001_220224**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68
	29 May 2022	**0937_SW001_220529**	**Normal**	**EM2210255**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81
	01 Sep 2022	**0937_SW001_220901**	**Normal**	**EM2216994-AD**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55
	21 Nov 2023	**0937_SW001_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29
SW002	**01 Jun 2016**	**OSW002**	**Normal**	**EM1606490**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.31
	26 Oct 2016	**OSW002**	**Normal**	**EM1612984**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	1.19
		QCA409	**Field_D**	**EM1612868**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	1.56
		QCB410	**Interlab_D**	**521935**	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	28 Nov 2019	**0937_SW02_191128**	**Normal**	**EM1920529-AC**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	2.52
	19 Mar 2020	**0937_SW002_20200319**	**Normal**	**EM2004707**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.24	<0.05	<0.05	2.91
	23 Jun 2020	**0937_SW002_20200623**	**Normal**	**EM2010693**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.52
	12 Nov 2020	**0937_SW002_201112**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.39	<0.05	<0.05	3.59
	02 Feb 2021	**0937_SW002_210202**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.15	<0.05	<0.05	2.40
	29 Apr 2021	**0937_SW002_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.60
	05 Aug 2021	**0937_SW002_210805**	**Normal**	**EM2115478**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.83
	11 Nov 2021	**0937_QC104_211111**	**Field_D**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.38
		0937_QC204_211111	**Interlab_D**	**847843**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.74
		0937_SW002_211111	**Normal**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.47
	23 Feb 2022	**0937_SW002_2220223**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	10.5
	28 May 2022	**0937_SW002_220528**	**Normal**	**EM2210255**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.46
	01 Sep 2022	**0937_SW002_220901**	**Normal**	**EM2216994-AD**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.98
	21 Nov 2023	**0937_SW002_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.52
SW004	**26 Oct 2016**	**OSW004**	**Normal**	**EM1612984**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.577
	28 Nov 2019	**0937_SW04_191128**	**Normal**	**EM1920529-AC**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.38
	19 Mar 2020	**0937_SW004_20200319**	**Normal**	**EM2004707**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	2.62
	23 Jun 2020	**0937_SW004_200623**	**Normal**	**EM2010693**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.82
	12 Nov 2020	**0937_SW004_201112**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	3.09
	02 Feb 2021	**0937_SW004_210202**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.46
	29 Apr 2021	**0937_SW004_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.61
	05 Aug 2021	**0937_SW004_210805**	**Normal**	**EM2115478**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.66
	11 Nov 2021	**0937_QC103_211111**	**Field_D**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.45
		0937_QC203_211111	**Interlab_D**	**847843**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.84
		0937_SW004_211111	**Normal**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.40
	23 Feb 2022	**0937_SW004_220223**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.26
	28 May 2022	**0937_SW004_220528**	**Normal**	**EM2210255**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.52
	01 Sep 2022	**0937_SW004_220901**	**Normal**	**EM2216994-AD**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.75
	21 Nov 2023	**0937_SW004_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	1.95

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW011	26 Oct 2016	OSW011	Normal	EM1612993	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.581
	04 Dec 2019	0937_QC110_191204	Field_D	EM1920784	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.38
		0937_QC210_191204	Interlab_D	EM1920784	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39
		0937_SW011_191204	Normal	EM1920784	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.37
	25 Mar 2020	0937_SW011_20200325	Normal	EM2005034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.57
	22 Jun 2020	0937_SW011_20200621	Normal	EM2010690	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.48
	13 Nov 2020	0937_SW011_201113	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.30
	02 Feb 2021	0937_SW011_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59
	30 Apr 2021	0937_SW011_20210430	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	0.68
	06 Aug 2021	0937_SW011_210806	Normal	EM2115483	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
	10 Nov 2021	0937_SW011_211110	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	23 Feb 2022	0937_SW011_220223	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23
	27 May 2022	0937_SW011_220527	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
	22 Nov 2023	0937_SW011_231122	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10
SW012	26 Oct 2016	OSW012	Normal	EM1612988	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.011
	04 Dec 2019	0937_SW012_191204	Normal	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	25 Mar 2020	0937_SW012_20200325	Normal	EM2005032	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Jun 2020	0937_SW012_20200623	Normal	EM2010690	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	13 Nov 2020	0937_SW012_201113	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	04 Feb 2021	0937_SW012_210202	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Apr 2021	0937_SW012_20210430	Normal	EM2107805	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	06 Aug 2021	0937_SW012_210806	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	10 Nov 2021	0937_SW012_211110	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	23 Feb 2022	0937_SW012_220223	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	31 May 2022	0937_SW012_220527	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Nov 2023	0937_SW012_231122	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
SW014	26 Oct 2016	OSW014	Normal	EM1612993	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.179
	04 Dec 2019	0937_SW014_191204	Normal	EM1920787	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
	25 Mar 2020	0937_QC106_20200325	Field_D	EM2005034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
		0937_QC206_20200325	Interlab_D	710361	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.13
		0937_SW014_20200325	Normal	EM2005034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	22 Jun 2020	0937_SW014_20200623	Normal	EM2010690	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	13 Nov 2020	0937_SW014_201113	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17
	02 Feb 2021	0937_SW014_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	30 Apr 2021	0937_SW014_20210430	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	06 Aug 2021	0937_SW014_210806	Normal	EM2115483	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
	10 Nov 2021	0937_SW014_211110	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07
	23 Feb 2022	0937_SW014_220223	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18
	27 May 2022	0937_SW014_220527	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.30
	22 Nov 2023	0937_SW014_231122	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
SW015	26 Oct 2016	OSW015	Normal	EM1612993	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.422
	04 Dec 2019	0937_SW015_191204	Normal	EM1920784	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.19
	25 Mar 2020	0937_SW015_20200325	Normal	EM2005034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.57
	22 Jun 2020	0937_SW015_200623	Normal	EM2010690	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	13 Nov 2020	0937_SW015_201113	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24
	02 Feb 2021	0937_SW015_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49
	30 Apr 2021	0937_SW015_20210430	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62
	23 Feb 2022	0937_SW015_220223	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.19
	27 May 2022	0937_SW015_220527	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22
	22 Nov 2023	0937_SW015_231122	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW016	**26 Oct 2016**	**OSW016**	**Normal**	**EM1612993**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.387
	25 Mar 2020	**0937_SW016_20200325**	**Normal**	**EM2005034**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68
	22 Jun 2020	**0937_SW016_20200622**	**Normal**	**EM2010690**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.47
	13 Nov 2020	**0937_SW016_201113**	**Normal**	**EM2020047**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.42
	02 Feb 2021	**0937_SW016_210202**	**Normal**	**EM2101562**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.58
	30 Apr 2021	**0937_SW016_20210430**	**Normal**	**EM2107855**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55
	22 Nov 2023	**0937_SW016_231122**	**Normal**	**EM2320910**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07
SW019	**28 Oct 2016**	**OSW019**	**Normal**	**EM1612987**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.098
	06 Dec 2016	**OSW019**	**Normal**	**EM1614830**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.108
	03 Dec 2019	**0937_SW019_191203**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	16 Mar 2020	**0937_SW019_20200316**	**Normal**	**EM2004774**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	18 Jun 2020	**0937_SW019_200618**	**Normal**	**EM2010385**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	12 Nov 2020	**0937_SW019_201112**	**Normal**	**EM2020045**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	**0937_SW019_210203**	**Normal**	**EM2101568**	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	<0.04
	21 Apr 2021	**0937_SW019_20210421**	**Normal**	**EM2107090**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Aug 2021	**0937_SW019_210804**	**Normal**	**EM2115485**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	11 Nov 2021	**0937_SW019_211111**	**Normal**	**EM2123008**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11
	22 Feb 2022	**0937_SW019_220222**	**Normal**	**EM2203193**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	29 May 2022	**0937_SW019_220529**	**Normal**	**EM2210260**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	30 Aug 2022	**0937_SW019_220830**	**Normal**	**EM2216989**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04
	30 Nov 2022	**0937_SW019_221130**	**Normal**	**EM2223922**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
	21 Nov 2023	**0937_SW019_231121**	**Normal**	**EM2320917**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
SW030	**26 Oct 2016**	**OSW030**	**Normal**	**EM1612981**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.469
	04 Dec 2019	**0937_SW030_191204**	**Normal**	**EM1920788**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.10
	19 Mar 2020	**0937_SW030_20200319**	**Normal**	**EM2004716**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	1.39
	19 Jun 2020	**0937_QC109_200619**	**Field_D**	**EM2010383**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.03
		0937_QC209_200619	**Interlab_D**	**726765**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.74
		0937_SW030_200619	**Normal**	**EM2010383**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.02
	12 Nov 2020	**0937_SW030_201112**	**Normal**	**EM2020042**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.77
	02 Feb 2021	**0937_SW030_210202**	**Normal**	**EM2101566**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.15
	29 Apr 2021	**0937_SW030_20210429**	**Normal**	**EM2107807**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.09
	05 Aug 2021	**0937_SW030_210805**	**Normal**	**EM2115482**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	11 Nov 2021	**0937_SW030_211111**	**Normal**	**EM2123005**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
	23 Feb 2022	**0937_SW030_220223**	**Normal**	**EM2203198**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.71
	29 May 2022	**0937_SW030_220529**	**Normal**	**EM2210257**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39
	02 Sep 2022	**0937_SW030_220902**	**Normal**	**EM2216993**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.98
	30 Nov 2022	**0937_SW030_221130**	**Normal**	**EM2223928**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
SW031	**26 Oct 2016**	**OSW031**	**Normal**	**EM1612982**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.412
	28 Nov 2019	**0937_SW031_191128**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07
	20 Mar 2020	**0937_SW031_20200320**	**Normal**	**EM2004718**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	23 Jun 2020	**0937_SW031_200623**	**Normal**	**EM2010696**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	13 Nov 2020	**0937_SW031_201113**	**Normal**	**EM2020044**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14
	02 Feb 2021	**0937_SW031_210202**	**Normal**	**EM2101565**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.47
	29 Apr 2021	**0937_SW031_20210429**	**Normal**	**EM2107809**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.64
	23 Nov 2023	**0937_SW031_231123**	**Normal**	**EM2320915**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW032	26 Oct 2016	OSW032	Normal	EM1612982	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.175
		QCA417	Field_D	EM1612868	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.184
		QCB418	Interlab_D	521935	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	28 Nov 2019	0931_SW032_191128	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.36
	20 Mar 2020	0937_SW032_20200320	Normal	EM2004718	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	23 Jun 2020	0937_SW032_200322	Normal	EM2010696	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	13 Nov 2020	0937_SW032_201113	Normal	EM2020044	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23
	02 Feb 2021	0937_SW032_210202	Normal	EM2101565	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.94
	04 May 2021	0937_SW032_20210504	Normal	EM2108092	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	06 Aug 2021	0937_SW032_210806	Normal	EM2115477	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	18 Nov 2021	0937_SW032_211118	Normal	EM2123007	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	24 Feb 2022	0937_SW032_220224	Normal	EM2203200	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	31 May 2022	0937_SW032_220531	Normal	EM2210258	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	01 Sep 2022	0937_SW032_220901	Normal	EM2216991	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	30 Nov 2022	0937_SW032_221130	Normal	EM2223921	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Nov 2023	0937_SW032_231123	Normal	EM2320915	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05
SW033	27 Oct 2016	OSW033	Normal	EM1613005	<0.002	<0.002	<0.005	0.003	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	3.01
	19 Mar 2020	0937_QC102_20200319	Field_D	EM2004707	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.67
		0937_QC202_20200319	Interlab_D	711148	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.26
		0937_SW033_20200319	Normal	EM2004707	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65
	19 Jun 2020	0937_QC107_20200619	Field_D	EM2010382	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.60
		0937_QC207_200619	Interlab_D	726765	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.34
		0937_SW033_20200619	Normal	EM2010382	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.68
	12 Nov 2020	0937_SW033_201112	Normal	EM2020041	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.93	<0.05	<0.05	4.13
	04 Feb 2021	0937_SW033_210204	Normal	EM2101558	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	2.49
	29 Apr 2021	0937_SW033_20210429	Normal	EM2107856	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74
	05 Aug 2021	0937_SW033_210805	Normal	EM2115478	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	4.42
	11 Nov 2021	0937_QC105_211111	Field_D	EM2123001	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	3.40
		0937_QC205_211111	Interlab_D	847843	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.14	<0.01	<0.01	5.66
		0937_SW033_211111	Normal	EM2123001	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	3.46
	23 Feb 2022	0937_SW033_220223	Normal	EM2203197	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.48	<0.05	<0.05	13.1
	31 May 2022	0937_SW033_220528	Normal	EM2210255	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	10.5
	01 Sep 2022	0937_SW033_220901	Normal	EM2216994-AD	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	6.74
	21 Nov 2023	0937_SW033_231121	Normal	EM2320912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	12.4
SW034	26 Oct 2016	OSW034	Normal	EM1612997	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.335
	28 Nov 2019	0937_SW034_191128	Normal	EM1920529-AC	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74
	20 Mar 2020	0937_SW034_20200320	Normal	EM2004707	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.04
	18 Jun 2020	0937_SW034_20200618	Normal	EM2010382	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.00
	13 Nov 2020	0937_SW034_201113	Normal	EM2020041	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.90
	02 Feb 2021	0937_SW034_2102032	Normal	EM2101558	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.67	<0.05	<0.05	4.79
	29 Apr 2021	0937_SW034_20210429	Normal	EM2107856	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.22
	06 Aug 2021	0937_SW034_210806	Normal	EM2115478	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09
	17 Nov 2021	0937_SW034_211117	Normal	EM2123001	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14
	24 Feb 2022	0937_SW034_220224	Normal	EM2203197	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.92
	31 May 2022	0937_SW034_220531	Normal	EM2210255	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.65
	01 Sep 2022	0937_SW034_220901	Normal	EM2216994-AD	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.5
	21 Nov 2023	0937_SW034_231121	Normal	EM2320912	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW035	**26 Oct 2016**	**OSW035**	**Normal**	**EM1612997**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.834
	26 Mar 2020	**0937_SW035_20200326**	**Normal**	**EM2005031**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.95
	23 Jun 2020	**0937_SW035_20200623**	**Normal**	**EM2010693**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50
	13 Nov 2020	**0937_SW035_201113**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59
	04 Feb 2021	**0937_SW035_210204**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.10
	29 Apr 2021	**0937_SW035_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.97
	24 Feb 2022	**0937_SW035_220224**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.66
	29 May 2022	**0937_SW035_220529**	**Normal**	**EM2210255**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77
	21 Nov 2023	**0937_SW035_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29
SW041	**26 Oct 2016**	**OSW041**	**Normal**	**EM1612997**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.406
	28 Nov 2019	**0937_SW041_191128**	**Normal**	**EM1920529-AC**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.77
	20 Mar 2020	**0937_SW041_20200320**	**Normal**	**EM2004707**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.22
	18 Jun 2020	**0937_SW041_20200618**	**Normal**	**EM2010382**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.34
	13 Nov 2020	**0937_SW041_201113**	**Normal**	**EM2020041**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.71
	02 Feb 2021	**0937_SW041_210203**	**Normal**	**EM2101558**	<0.02	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.69
	29 Apr 2021	**0937_SW041_20210429**	**Normal**	**EM2107856**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65
	06 Aug 2021	**0937_SW041_210806**	**Normal**	**EM2115478**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20
	11 Nov 2021	**0937_SW041_211111**	**Normal**	**EM2123001**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44
	24 Feb 2022	**0937_SW041_220224**	**Normal**	**EM2203197**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.19
	28 May 2022	**0937_SW041_220529**	**Normal**	**EM2210255**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.57
	01 Sep 2022	**0937_SW041_220901**	**Normal**	**EM2216994-AD**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61
	21 Nov 2023	**0937_SW041_231121**	**Normal**	**EM2320912**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.92
SW049	**27 Oct 2016**	**OSW049**	**Normal**	**EM1613003**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0
	03 Dec 2019	**0937_SW049_191203**	**Normal**	**EM1920780**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	19 Mar 2020	**0937_SW049_**	**Normal**	**EM2004719**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	18 Jun 2020	**0937_SW049_20200618**	**Normal**	**EM2010386**	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.62
	12 Nov 2020	**0937_SW049_201112**	**Normal**	**EM2020046**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	01 Feb 2021	**0937_SW049_210201**	**Normal**	**EM2101559**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	21 Apr 2021	**0937_SW049_20210421**	**Normal**	**EM2107088**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	06 Aug 2021	**0937_SW049_210806**	**Normal**	**EM2115480**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11
	18 Nov 2021	**0937_SW049_211118**	**Normal**	**EM2123002**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.90
	22 Feb 2022	**0937_SW049_220222**	**Normal**	**EM2203201**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	31 May 2022	**0937_SW049_220531**	**Normal**	**EM2210259**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 Aug 2022	**0937_SW049_220829**	**Normal**	**EM2216987**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.58
	01 Dec 2022	**0937_SW049_221201**	**Normal**	**EM2223923**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.96
	23 Nov 2023	**0937_SW049_231123**	**Normal**	**EM2320918**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
SW052	**26 Oct 2016**	**OSW052**	**Normal**	**EM1612985**	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.763
	04 Dec 2019	**0937_SW052_191204**	**Normal**	**EM1920785**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.42
	19 Mar 2020	**0937_SW052_20200319**	**Normal**	**EM2004717**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.7
	23 Jun 2020	**0937_SW052-200623**	**Normal**	**EM2010691**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.3
	12 Nov 2020	**0937_SW052_201112**	**Normal**	**EM2020043**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.84
	04 Feb 2021	**0937_SW052_210204**	**Normal**	**EM2101564**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.87
	29 Apr 2021	**0937_SW052_20210429**	**Normal**	**EM2107806**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.66
	05 Aug 2021	**0937_SW052_210805**	**Normal**	**EM2115484**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.83
	11 Nov 2021	**0937_SW052_211111**	**Normal**	**EM2123006**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.29
	23 Feb 2022	**0937_SW052_220223**	**Normal**	**EM2203199**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.27
	28 May 2022	**0937_SW052_220528**	**Normal**	**EM2210256**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81
	01 Sep 2022	**0937_SW052_220901**	**Normal**	**EM2216992**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.08
	21 Nov 2023	**0937_SW052_231121**	**Normal**	**EM2320914**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW077	02 Dec 2019	0937_QC209_191202	Interlab_D	692892	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
	03 Dec 2019	0937_QC109_191203	Field_D	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
		0937_SW077_191203	Normal	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	18 Mar 2020	0937_SW077_20200318	Normal	EM2004708	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	22 Jun 2020	0937_SW077_20200622	Normal	EM2010695	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	13 Nov 2020	0937_SW077_201113	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	04 Feb 2021	0937_SW077_210204	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	21 Apr 2021	0937_SW077_2021042	Normal	EM2107087	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	05 Aug 2021	0937_SW077_210805	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	17 Nov 2021	0937_SW077_211117	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	21 Feb 2022	0937_SW077_220221	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	31 May 2022	0937_SW077_220531	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	02 Sep 2022	0937_SW077_220902	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	01 Dec 2022	0937_SW077_221201	Normal	EM2223925	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Nov 2023	0937_SW077_231122	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
SW080	04 Dec 2019	0937_SW080_191204	Normal	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	25 Mar 2020	0937_SW080_20200325	Normal	EM2005032	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	22 Jun 2020	0937_SW080_20200621	Normal	EM2010695	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	13 Nov 2020	0937_SW080_201113	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	04 Feb 2021	0937_SW080_210202	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Apr 2021	0937_SW080_20210430	Normal	EM2107805	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	06 Aug 2021	0937_SW080_210806	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	11 Nov 2021	0937_SW080_211111	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	23 Feb 2022	0937_SW080_220223	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	31 May 2022	0937_SW080_220527	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	31 Aug 2022	0937_QC113_220831	Field_D	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
		0937_QC213_220831	Interlab_D	922406	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1
		0937_SW080_220831	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Nov 2023	0937_SW080_231122	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
SW082	04 Dec 2019	0937_SW082_191204	Normal	EM1920787	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.36
	25 Mar 2020	0937_SW082_20200325	Normal	EM2005034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49
	22 Jun 2020	0937_SW082_200623	Normal	EM2010690	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.28
	13 Nov 2020	0936_SW082_201113	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20
	02 Feb 2021	0937_SW082_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55
	30 Apr 2021	0937_SW082_20210430	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55
	06 Aug 2021	0937_SW082_210806	Normal	EM2115483	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	11 Nov 2021	0937_SW082_211111	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	23 Feb 2022	0937_SW082_220223	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18
	27 May 2022	0937_SW082_220527	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24
	31 Aug 2022	0937_SW082_220831	Normal	EM2216996	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06
	22 Nov 2023	0937_SW082_231122	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW088	04 Dec 2019	0937_SW088_191204	Normal	EM1920784	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34
	19 Mar 2020	0937_SW088_20200319	Normal	EM2004706	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.51
	18 Jun 2020	0937_SW088_20200618	Normal	EM2010381	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.75
	12 Nov 2020	0937_SW088_201112	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.6
	02 Feb 2021	0937_SW088_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.75
	29 Apr 2021	0937_SW088_20210429	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12
	05 Aug 2021	0937_SW088_210805	Normal	EM2115483	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12
	11 Nov 2021	0937_SW088_211111	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31
	22 Feb 2022	0937_SW088_220222	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.66
	29 May 2022	0937_SW088_220529	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29
	31 Aug 2022	0937_SW088_220831	Normal	EM2216996	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17
	21 Nov 2023	0937_SW088_231121	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.46
SW089	04 Dec 2019	0937_SW089_191204	Normal	EM1920787	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77
	25 Mar 2020	0937_SW089_20200325	Normal	EM2005034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.08
	22 Jun 2020	0937_SW089_20200623	Normal	EM2010690	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68
	13 Nov 2020	0937_SW089_201113	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.51
	02 Feb 2021	0937_SW089_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.98
	30 Apr 2021	0937_SW089_20210430	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.06
	04 Aug 2021	0937_SW089_210804	Normal	EM2115483	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29
	10 Nov 2021	0937_SW089_211110	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20
	22 Feb 2022	0937_SW089_220222	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54
	27 May 2022	0937_SW089_220527	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32
	31 Aug 2022	0937_SW089_220831	Normal	EM2216996	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.26
	21 Nov 2023	0937_SW089_231121	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16
SW092	03 Dec 2019	0937_SW092_191203	Normal	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	16 Mar 2020	0937_SW092_20200316	Normal	EM2004774	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	18 Jun 2020	0937_SW092_20200618	Normal	EM2010385	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
	12 Nov 2020	0937_SW092_201112	Normal	EM2020045	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	0937_SW092_210203	Normal	EM2101568	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	21 Apr 2021	0937_SW092_20210421	Normal	EM2107090	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Aug 2021	0937_SW092_210804	Normal	EM2115485	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	11 Nov 2021	0937_SW092_211111	Normal	EM2123008	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07
	22 Feb 2022	0937_SW092_220222	Normal	EM2203193	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	29 May 2022	0937_SW092_220529	Normal	EM2210260	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Aug 2022	0937_SW092_220830	Normal	EM2216989	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Nov 2022	0937_SW092_221130	Normal	EM2223922	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	21 Nov 2023	0937_SW092_231121	Normal	EM2320917	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03
SW093	03 Dec 2019	0937_SW093_191203	Normal	EM1920780	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	16 Mar 2020	0937_SW093_20200316	Normal	EM2004708	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02
	18 Jun 2020	0937_SW093_200618	Normal	EM2010387	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	12 Nov 2020	0937_SW093_201112	Normal	EM2020052	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	03 Feb 2021	0937_SW093_210203	Normal	EM2101560	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	21 Apr 2021	0937_SW093_20210421	Normal	EM2107087	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	04 Aug 2021	0937_SW093_210804	Normal	EM2115569	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	11 Nov 2021	0937_SW093_211111	Normal	EM2123079	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	22 Feb 2022	0937_SW093_220222	Normal	EM2203192	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	29 May 2022	0937_SW093_220529	Normal	EM2210253	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Aug 2022	0937_SW093_220830	Normal	EM2216985	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
	30 Nov 2022	0937_SW093_221130	Normal	EM2223925	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01
	21 Nov 2023	0937_SW093_231121	Normal	EM2320919	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW201	12 Nov 2021	0937_SW201_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.62
	23 Aug 2022	0937_QC103_220823	Field_D	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.8
		0937_QC203_220823	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	15.8
		0937_SW201_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.1
	22 Nov 2022	0937_SW201_221122	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.8
SW203	20 Nov 2019	0937_SW203_191120	Normal	EM1920039	<0.02	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	29.7
	17 Mar 2020	0937_SW203_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.66
	15 Jun 2020	0937_SW203_20200615	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.93
	10 Nov 2020	0937_SW203_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.4
	03 Feb 2021	0937_SW203_210203	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.37
	22 Apr 2021	0937_ SW203 _20210422	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.25
	13 Jul 2021	0937_QC105_210713	Field_D	EM2113872-AB	<0.04	<0.04	<0.11	<0.04	<0.11	<0.11	<0.11	<0.11	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	163
		0937_QC205_210713	Interlab_D	811260	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	234
		0937_SW203_210713	Normal	EM2113872-AB	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	152
	12 Nov 2021	0937_SW203_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.79
	15 Feb 2022	0937_SW203_220215	Normal	EM2202703	<0.02	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.7
	25 May 2022	0937_QC102_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.8
		0937_QC202_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	22.29
		0937_SW203_220525	Normal	EM2210316	<0.02	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.7
	23 Aug 2022	0937_SW203_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.8
	24 Nov 2022	0937_SW203_221124	Normal	EM2223510	<0.04	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	103
	16 Nov 2023	0937_SW203_231116	Normal	EM2320952	<0.02	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.2
SW206	13 Oct 2016	SW206	Normal	EM1612198	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	36.4	1.37	0.25	67.4
	28 Jan 2021	0937_SW206_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20
SW208	14 Oct 2016	SW208	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.42
	17 Mar 2020	0937_SW208_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.56
	15 Jun 2020	0937_SW208_200615	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61
	10 Nov 2020	0937_QC107_201110	Field_D	EM2020050	<0.02	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	3.20
		0937_QC207_201110	Interlab_D	757178	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.22	<0.01	<0.01	3.64
		0937_SW208_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	2.96
	28 Jan 2021	0937_SW208_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.53
	28 Apr 2021	0937_ SW208 _20210428	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49
	13 Jul 2021	0937_SW208_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.68
	12 Nov 2021	0937_SW208_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08
	16 Feb 2022	0937_QC108_220216	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.22	<0.05	<0.05	4.85
		0937_QC208_220216	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.6	<0.01	<0.01	3.42
		0937_SW208_220216	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.56	<0.05	<0.05	5.26
	25 May 2022	0937_QC103_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.66	<0.05	<0.05	2.70
		0937_QC203_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.76
		0937_SW208_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.63	<0.05	<0.05	2.30
	23 Aug 2022	0937_SW208_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.62	<0.05	<0.05	2.23
	24 Nov 2022	0937_SW208_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.52	<0.05	<0.05	3.89

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW209	21 Oct 2016	SW209	Normal	EM1612570	<0.1	<0.1	<0.25	0.3	<0.25	<0.25	<0.25	<0.25	<0.1	<0.1	<0.1	0.6	0.66	<0.1	304
	20 Nov 2019	0937_SW209_191120	Normal	EM1920039	<0.02	<0.02	<0.05	0.54	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	4.18	0.10	<0.05	45.1
	17 Mar 2020	0937_SW209_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	0.72	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.48	0.06	<0.05	41.2
	16 Jun 2020	0937_SW209_200616	Normal	EM2010514	<0.02	<0.02	<0.05	0.46	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.97	0.06	<0.05	24.1
	10 Nov 2020	0937_SW209_201110	Normal	EM2020050	<0.04	<0.04	<0.10	0.17	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	2.85	<0.05	<0.05	21.0
	28 Jan 2021	0937_SW209_210128	Normal	EM2101229	<0.02	<0.02	<0.05	0.29	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	20.4
	22 Apr 2021	0937_ SW209 _2022042	Normal	EM2107085	<0.02	<0.02	<0.05	0.55	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.0
	13 Jul 2021	0937_SW209_210713	Normal	EM2113872-AB	<0.04	<0.04	<0.09	0.25	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.66	<0.05	<0.05	24.0
	15 Nov 2021	0937_QC110_211115	Field_D	EM2123080	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	53.2
		0937_QC210_211115	Interlab_D	842318	<0.01	<0.01	<0.01	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	0.02	<0.01	72.74
		0937_SW209_211115	Normal	EM2123080	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	53.1
	22 Feb 2022	0937_SW209_220222	Normal	EM2203247	<0.04	<0.04	<0.09	0.1	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.44	<0.05	<0.05	19.7
	23 Aug 2022	0937_SW209_220823	Normal	EM2216476	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.82
	24 Nov 2022	0937_SW209_221124	Normal	EM2223510	0.06	0.02	<0.05	1.23	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	57.9
	17 Nov 2023	0937_QC117_231117	Field_D	EM2320952	<0.04	<0.04	<0.09	0.12	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.11	<0.05	<0.05	24.8
		0937_QC217_231117	Interlab_D	1048259	<0.01	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.07	<0.05	<0.01	19.37
		0937_SW209_231117	Normal	EM2320952	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	22.9
SW216	21 Oct 2016	SW216	Normal	EM1612570	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	18.2
	03 Aug 2021	0937_SW216_210803	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.22
	17 Feb 2022	0937_SW216_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.78
	24 Nov 2022	0937_SW216_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.35
SW217	16 Nov 2021	0937_SW217_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.4
	26 Aug 2022	0937_SW217_220826	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.2
SW222	12 Oct 2016	SW222	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62
	16 Jun 2020	0937_SW222_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.65
	28 Jan 2021	0937_SW222_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.97
	13 Jul 2021	0937_SW222_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.43
	15 Nov 2021	0937_QC112_211115	Field_D	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	3.31
		0937_QC212_211115	Interlab_D	842318	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.09	<0.01	<0.01	4.66
		0937_SW222_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	3.24
	17 Feb 2022	0937_QC110_220217	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.84	<0.05	<0.05	1.65
		0937_QC210_220217	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.96	<0.01	<0.01	1.97
		0937_SW222_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.79	<0.05	<0.05	1.47
	25 May 2022	0937_QC108_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	6.88	<0.05	<0.05	10.0
		0937_QC208_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	7.0	<0.01	<0.01	9.43
		0937_SW222_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	6.71	<0.05	<0.05	9.96
	24 Aug 2022	0937_SW222_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.16	<0.05	<0.05	4.60
	24 Nov 2022	0937_SW222_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	12.5	<0.05	<0.05	16.1

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW223	12 Oct 2016	SW223	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.98
	20 Mar 2020	0937_SW223_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.20	<0.05	<0.05	1.49
	16 Jun 2020	0937_SW223_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.03
	10 Nov 2020	0937_SW223_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13
	28 Jan 2021	0937_SW223_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24
	28 Apr 2021	0937_QC109_20210428	Field_D	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44
		0937_ SW223_20210428	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49
		QC209_20210428	Interlab_D	792537	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.57
	14 Jul 2021	0937_QC208_210713	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	9.04
		0937_SW223_210714	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.72
	15 Nov 2021	0937_SW223_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	2.85
	17 Feb 2022	0937_QC109_220217	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.78	<0.05	<0.05	1.48
		0937_QC209_220217	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.91	<0.01	<0.01	1.86
		0937_SW223_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.86	<0.05	<0.05	1.52
	25 May 2022	0937_QC109_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.64	<0.05	<0.05	5.15
		0937_QC209_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	2.1	<0.01	<0.01	3.67
		0937_SW223_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.05	<0.05	<0.05	3.87
	24 Aug 2022	0937_QC105_220824	Field_D	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.91	<0.05	<0.05	3.28
		0937_QC205_220824	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.85	<0.01	<0.01	4.15
		0937_SW223_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.89	<0.05	<0.05	3.44
	24 Nov 2022	0937_SW223_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	6.90	<0.05	<0.05	9.37
	16 Nov 2023	0937_SW223_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	4.55	<0.05	<0.05	6.29
SW226	12 Nov 2021	0937_SW226_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.50
	23 Aug 2022	0937_SW226_220823	Normal	EM2216476	<0.04	<0.04	<0.10	0.18	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	55.0
	23 Nov 2022	0937_QC206_221123	Interlab_D	945182	<0.01	<0.01	<0.01	0.40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	77.56
		0937_SW226_221123	Normal	EM2223510	<0.04	<0.04	<0.09	0.38	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	90.0
SW227	14 Oct 2016	SW227	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.27
	25 Nov 2019	0937_SW227_191125	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.35
	17 Mar 2020	0937_SW227_20200317	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.85
	16 Jun 2020	0937_SW227_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.99
	10 Nov 2020	0937_SW227_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.42
	28 Jan 2021	0937_SW227_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.08
	28 Apr 2021	0937_ SW227_20210428	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.89
	14 Jul 2021	0937_QC111_210714	Field_D	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.18
		0937_QC211_210714	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.56
		0937_SW227_210714	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.28
	16 Nov 2021	0937_SW227_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.28
	21 Feb 2022	0937_SW227_220221	Normal	EM2203247	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74
	25 May 2022	0937_QC110_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.22
		0937_QC210_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.31
		0937_SW227_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.91
	24 Aug 2022	0937_QC106_220824	Field_D	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.32
		0937_QC206_220824	Interlab_D	922647	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.74
		0937_SW227_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.39
	24 Nov 2022	0937_SW227_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.64
	16 Nov 2023	0937_QC115_231116	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.58
		0937_QC215_231116	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.61
		0937_SW227_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.53

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW230	13 Oct 2016	SW230	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.13
	25 Nov 2019	0937_SW230_191125	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89
	18 Mar 2020	0937_SW230_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	0.60
	17 Jun 2020	0937_SW230_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61
	11 Nov 2020	0937_SW230_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.57
	01 Feb 2021	0937_SW230_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.51
	27 Apr 2021	0937_ SW230_20210427	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.09
	15 Jul 2021	0937_SW230_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65
	12 Nov 2021	0937_SW230_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.65
	18 Feb 2022	0937_SW230_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.83	<0.05	<0.05	4.47
	30 May 2022	0937_SW230_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.55	<0.05	<0.05	3.04
	22 Aug 2022	0937_SW230_220822_1620	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.47	<0.05	<0.05	2.90
	23 Aug 2022	0937_SW230_220823_0855	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	1.75
		0937_SW230_220823_1115	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	1.77
		0937_SW230_220823_1545	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	2.20
	24 Aug 2022	0937_SW230_220824_0940	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.40	<0.05	<0.05	4.00
		0937_SW230_220824_1540	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.44	<0.05	<0.05	4.32
	25 Aug 2022	0937_SW230_220825_0855	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.56	<0.05	<0.05	5.15
		0937_SW230_220825_1545	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.65	<0.05	<0.05	5.56
	26 Aug 2022	0937_SW230_220826_0940	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.81	<0.05	<0.05	6.10
	29 Nov 2022	0937_SW230_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	8.41	<0.05	<0.05	11.4
	15 Nov 2023	0937_QC105_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.84	<0.05	<0.05	3.51
		0937_QC205_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.6	<0.01	<0.01	3.29
		0937_SW230_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.84	<0.05	<0.05	3.63
SW231	13 Oct 2016	QCA296	Field_D	EM1612198	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	24.3
		QCB297	Interlab_D	519950	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
		SW231	Normal	EM1612198	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	27.1
	26 Nov 2019	0937_SW231_191126	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.81
	17 Mar 2020	0937_SW231_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.41
	16 Jun 2020	0937_SW231_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.58
	10 Nov 2020	0937_SW231_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.83
	29 Jan 2021	0937_QC107_210129	Field_D	EM2101229	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	4.91
		0937_QC207_210128	Interlab_D	770470	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	6.6
		0937_SW231_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.34
	26 Apr 2021	0937_ SW231 _20210426	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.53
	15 Jul 2021	0937_SW231_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27
	12 Nov 2021	0937_SW231_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.60
	18 Feb 2022	0937_QC116_220218	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.7
		0937_QC216_220218	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	5.53
		0937_SW231_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.78
	26 May 2022	0937_SW231_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.5
	23 Aug 2022	0937_SW231_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31
	29 Nov 2022	0937_SW231_221128	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	21.3
	20 Nov 2023	0937_SW231_231120	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.9

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW233	13 Oct 2016	SW233	Normal	EM1612198	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	24.2
	26 Nov 2019	0937_SW233_191126	Normal	EM1920529	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.29
	26 Mar 2020	0937_SW233_20200326	Normal	EM2005033	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.18
	16 Jun 2020	0937_SW233_200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.62
	10 Nov 2020	0937_QC108_201110	Field_D	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.21
		0937_QC208_201110	Interlab_D	757178	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4.32
		0937_SW233_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.41
	28 Jan 2021	0937_SW233_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.54
	26 Apr 2021	0937_ SW233 _20210426	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.17
	15 Jul 2021	0937_SW233_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.51
	15 Nov 2021	0937_SW233_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.38
	17 Feb 2022	0937_SW233_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.82
	26 May 2022	0937_SW233_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.70
	25 Aug 2022	0937_SW233_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.14
	24 Nov 2022	0937_SW233_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.42
	16 Nov 2023	0937_SW233_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.49
SW238	13 Oct 2016	SW238	Normal	EM1612198	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	15
	22 Nov 2019	0937_SW238_191122	Normal	EM1920034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	4.63
	16 Jun 2020	0937_SW238_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.86
	10 Nov 2020	0937_SW238	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.70
	29 Jan 2021	0937_SW238_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	2.78
	26 Apr 2021	0937_ SW238 _20210426	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.99
	15 Jul 2021	0937_QC118_210715	Field_D	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.23
		0937_SW238_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.60
	12 Nov 2021	0937_SW238_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	1.72
	18 Feb 2022	0937_QC118_220218	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.96
		0937_QC218_220218	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	10.06
		0937_SW238_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.69
	26 May 2022	0937_SW238_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.84
	22 Aug 2022	0937_SW238_220822_1500	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.72
	23 Aug 2022	0937_SW238_220823_0755	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32
		0937_SW238_220823_1035	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.64
		0937_SW238_220823_1505	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50
	24 Aug 2022	0937_SW238_220824_0900	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.03
		0937_SW238_220824_1505	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.54
	25 Aug 2022	0937_SW238_220825_0815	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.95
		0937_SW238_220825_1510	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.79
	26 Aug 2022	0937_SW238_220826_0910	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.78
	29 Nov 2022	0937_SW238_221128	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.86
	20 Nov 2023	0937_SW238_231120	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.74

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW239	**13 Oct 2016**	**SW239**	**Normal**	**EM1612198**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.4
	26 Nov 2019	**0937_SW239_191126**	**Normal**	**EM1920529**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.01	<0.05	<0.05	7.20
	16 Jun 2020	**0937_SW239_20200616**	**Normal**	**EM2010514**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.29	<0.05	<0.05	12.1
	10 Nov 2020	**0937_SW239_201110**	**Normal**	**EM2020050**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.70	<0.05	<0.05	22.2
	28 Jan 2021	**0937_SW239_210128**	**Normal**	**EM2101229**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.89	<0.05	<0.05	5.75
	26 Apr 2021	**0937_QC105_20210426**	**Field_D**	**EM2107858**	<0.02	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.60	<0.05	<0.05	8.24
		0937_ SW239 _20210426	**Normal**	**EM2107858**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.59	<0.05	<0.05	7.15
		QC205_20210426	**Interlab_D**	**792537**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.73	<0.01	<0.01	11.39
	15 Jul 2021	**0937_SW239_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.71	<0.05	<0.05	5.85
	12 Nov 2021	**0937_SW239_211112**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50
	17 Feb 2022	**0937_SW239_220217**	**Normal**	**EM2202703**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.96	<0.05	<0.05	8.26
	26 May 2022	**0937_SW239_220526**	**Normal**	**EM2210316**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	15.8
	22 Aug 2022	**0937_SW239_220822_1440**	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	12.6
	23 Aug 2022	**0937_SW239_220823_0730**	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	4.02
		0937_SW239_220823_1005	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	5.27
		0937_SW239_220823_1440	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.15	<0.05	<0.05	7.24
	24 Aug 2022	**0937_SW239_220824_0830**	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	4.20
		0937_SW239_220824_1430	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	4.71
	25 Aug 2022	**0937_SW239_220825_0745**	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	6.33
		0937_SW239_220825_1455	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	8.07
	26 Aug 2022	**0937_SW239_220826_0830**	**Normal**	**EM2216498**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.31	<0.05	<0.05	12.4
	24 Nov 2022	**0937_SW239_221124**	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.28	<0.05	<0.05	11.0
	17 Nov 2023	**0937_SW239_231117**	**Normal**	**EM2320952**	<0.03	<0.03	<0.09	0.06	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	0.11	<0.05	<0.05	23.1
SW242	**12 Oct 2016**	**SW242**	**Normal**	**EM1612198**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.9
	13 Jul 2021	**0937_QC209_210713**	**Interlab_D**	**811260**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.6
	14 Jul 2021	**0937_QC109_210714**	**Field_D**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12
		0937_SW242_210714	**Normal**	**EM2113872-AB**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.22
	12 Nov 2021	**0937_SW242_211112**	**Normal**	**EM2123080**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65
	24 Aug 2022	**0937_SW242_220824**	**Normal**	**EM2216476**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.65
	23 Nov 2022	**0937_QC204_221123**	**Interlab_D**	**945182**	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.22
		0937_SW242_221123	**Normal**	**EM2223510**	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW246	18 Mar 2020	0937_SW246_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	1.40
	17 Jun 2020	0937_SW246_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.60
	13 Nov 2020	0937_SW246_201111	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.91
	01 Feb 2021	0937_SW246_210201	Normal	EM2101575	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.73
	27 Apr 2021	0937_QC107_20210427	Field_D	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65
		0937_ SW246_20210427	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.21
		QC207_20210427	Interlab_D	792537	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.99
	04 Aug 2021	0937_SW246_210804	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.13
	12 Nov 2021	0937_SW246_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.21
	30 May 2022	0937_SW246_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.28	<0.05	<0.05	3.69
	22 Aug 2022	0937_SW246_220822_1615	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.97
	23 Aug 2022	0937_SW246_220823_0855	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44
		0937_SW246_220823_1115	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54
		0937_SW246_220823_1455	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62
	24 Aug 2022	0937_SW246_220824_0940	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93
		0937_SW246_220824_1540	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89
	25 Aug 2022	0937_SW246_220825_0855	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.85
		0937_SW246_220825_1545	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.83
	26 Aug 2022	0937_SW246_220826_0940	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.95
	29 Nov 2022	0937_SW246_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	12.4	<0.05	<0.05	16.4
	15 Nov 2023	0937_SW246_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.57	<0.05	<0.05	7.12
SW251	13 Oct 2016	SW251	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01
																			13.1
	22 Nov 2019	0937_SW251_191122	Normal	EM1920034	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.75	<0.05	<0.05	6.50
	20 Mar 2020	0937_SW251_20200320	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	1.47
	17 Jun 2020	0937_SW251_200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.07
	12 Nov 2020	0937_SW251_201112	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.22	<0.05	<0.05	4.24
	29 Jan 2021	0937_SW251_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18
	20 Apr 2021	0937_ SW251 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.45
	05 Aug 2021	0937_SW251_210805	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	3.87
	16 Nov 2021	0937_SW251_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	3.30
	21 Feb 2022	0937_SW251_220221	Normal	EM2203247	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.57	<0.05	<0.05	14.6
	31 May 2022	0937_SW251_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	17.3
	22 Aug 2022	0937_SW251_220822_1600	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	5.09
	23 Aug 2022	0937_SW251_220823_1615	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	5.03
		0937_SW251_220823_2215	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	3.42
	24 Aug 2022	0937_SW251_220824_0415	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.31
		0937_SW251_220824_1615	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.32
	25 Aug 2022	0937_SW251_220825_1650	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.07
	26 Aug 2022	0937_SW251_220823_1320	Normal	EM2216498	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.86
	30 Nov 2022	0937_SW251_221130	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	7.96
	15 Nov 2023	0937_QC107_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	11.8
		0937_QC207_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.10	<0.01	<0.01	11.68
		0937_SW251_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	10.3

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW252	12 Oct 2016	QCA300	Field_D	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.35
		QCB301	Interlab_D	519950	<0.3	<0.3	<0.3	<1.5	<1.5		<1.5				<0.3	<1.5	<0.3		
		SW252	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.07
	17 Jun 2020	0937_QC102_200617	Field_D	EM2010514	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.99
		0937_QC202_200617	Interlab_D	726765	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.86
		0937_SW252_200617	Normal	EM2010514	<0.05	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.54
	15 Jul 2021	0937_SW252_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55
	16 Nov 2021	0937_SW252_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62
	25 Aug 2022	0937_SW252_220825	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39
	29 Nov 2022	0937_SW252_221129	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.29
	15 Nov 2023	0937_QC104_231115	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.92
		0937_QC204_231115	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.86
		0937_SW252_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.85
SW256	13 Oct 2016	SW256	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	20
	16 Jun 2020	0937_SW256_20200616	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.37	<0.05	<0.05	8.08
	10 Nov 2020	0937_QC104_201110	Field_D	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.97	<0.05	<0.05	14.1
		0937_QC204_201110	Interlab_D	757178	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.96	<0.01	<0.01	21.19
		0937_SW256_201110	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.88	<0.05	<0.05	14.5
	28 Jan 2021	0937_SW256_210128	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.52	<0.05	<0.05	8.42
	26 Apr 2021	0937_QC102_20210426	Field_D	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.46	<0.05	<0.05	9.75
		0937_ SW256_20210426	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.49	<0.05	<0.05	9.08
		QC202_20210426	Interlab_D	792537	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.63	<0.01	<0.01	8.9
	14 Jul 2021	0937_QC115_210714	Field_D	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.18
		0937_QC215_210714	Interlab_D	811260	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.08	<0.01	<0.01	5.84
		0937_SW256_210714	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.32
	12 Nov 2021	0937_SW256_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	1.71
	17 Feb 2022	0937_SW256_220217	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10
	26 May 2022	0937_SW256_220526	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.43
	24 Aug 2022	0937_SW256_220824	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.45
	29 Nov 2022	0937_SW256_221128	Normal	EM2223972	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.42
	23 Nov 2023	0937_SW256_231123	Normal	EM2320952	<0.04	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	0.08	<0.05	<0.05	15.2
SW257	13 Oct 2016	SW257	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.6
	22 Nov 2019	0937_SW257_191122	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.78	<0.05	<0.05	10.3
	17 Jun 2020	0937_SW257_20200617	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.08	<0.05	<0.05	7.29
	23 Jun 2020	0937_SW257_200623	Normal	EM2010697	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.62	<0.05	<0.05	5.16
	11 Nov 2020	0937_SW257_201111	Normal	EM2020050	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.01	<0.05	<0.05	12.4
	28 Jan 2021	0937_QC209_210128	Interlab_D	770470	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.40	<0.01	<0.01	5.13
	29 Jan 2021	0937_QC109_210129	Field_D	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.43	<0.05	<0.05	5.09
		0937_SW257_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.02	<0.05	<0.05	7.87
	28 Apr 2021	0937_ SW257_202105	Normal	EM2107858	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.26	<0.05	<0.05	8.62
	15 Jul 2021	0937_SW257_210715	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.34	<0.05	<0.05	5.07
	12 Nov 2021	0937_SW257_211112	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	1.89
	18 Feb 2022	0937_QC111_220218	Field_D	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.75	<0.05	<0.05	21.8
		0937_QC211_220218	Interlab_D	864735	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.49	<0.01	<0.01	22.6
		0937_SW257_220218	Normal	EM2202703	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.6	<0.05	<0.05	17.6
	25 May 2022	0937_QC112_220525	Field_D	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	16.6
		0937_QC212_220525	Interlab_D	893740	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.39	<0.01	<0.01	16.95
	26 May 2022	0937_SW257_220525	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.35	<0.05	<0.05	19.6
	23 Aug 2022	0937_SW257_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.83
	23 Nov 2022	0937_SW257_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.12
	20 Nov 2023	0937_SW257_231120	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	14.8

Table B2b - Surface Water Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					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
LOR					0.002	0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water																			
PFAS NEMP 2.0 Table 1 Health Recreational Water																			
PFAS NEMP 2.0 Table 5 Freshwater 99%																			
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SW258	13 Oct 2016	SW258	Normal	EM1612198	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14
	22 Nov 2019	0937_SW258_191122	Normal	EM1920039	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.25	<0.05	<0.05	9.83
	20 Mar 2020	0937_SW258_20200318	Normal	EM2004711	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.82	<0.05	<0.05	9.15
	15 Jun 2020	0937_SW258_20200615	Normal	EM2010514	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.29	<0.05	<0.05	5.55
	09 Nov 2020	0937_SW258_201109	Normal	EM2020050	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.75	<0.05	<0.05	4.97
	29 Jan 2021	0937_SW258_210129	Normal	EM2101229	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.21	<0.05	<0.05	4.06
	20 Apr 2021	0937_ SW258 _20210420	Normal	EM2107085	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.34	<0.05	<0.05	5.35
	05 Aug 2021	0937_SW258_210805	Normal	EM2115476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	4.09
	16 Nov 2021	0937_QC115_211116	Field_D	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	5.10
		0937_QC215_211116	Interlab_D	842318	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.11	<0.01	<0.01	6.77
		0937_SW258_211116	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	4.81
	21 Feb 2022	0937_SW258_220221	Normal	EM2203247	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.5	<0.05	<0.05	16.2
	30 May 2022	0937_SW258_220530	Normal	EM2210316	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.20	<0.05	<0.05	17.4
	02 Sep 2022	0937_SW258_220902	Normal	EM2217000	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.36	<0.05	<0.05	12.3
	23 Nov 2022	0937_SW258_221123	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.47
	16 Nov 2023	0937_QC114_231116	Field_D	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	10.8
		0937_QC214_231116	Interlab_D	1048259	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.07	<0.01	<0.01	10.95
		0937_SW258_231116	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	10.7
SW277	26 Oct 2016	OSW010	Normal	EM1612993	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.583
		QCA405	Field_D	EM1612868	<0.002	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.507
		QCB406	Interlab_D	521935	<0.01	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01		
	04 Dec 2019	0937_SW010_191204	Normal	EM1920784	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81
	19 Mar 2020	0937_SW277_20200319	Normal	EM2004706	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.07
	18 Jun 2020	0937_SW277_200618	Normal	EM2010381	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.85
	12 Nov 2020	0937_SW277_201112	Normal	EM2020047	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.42
	02 Feb 2021	0937_SW277_210202	Normal	EM2101562	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54
	29 Apr 2021	0937_SW277_20210429	Normal	EM2107855	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.87
	04 Aug 2021	0937_SW277_210804	Normal	EM2115483	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.32
	10 Nov 2021	0937_SW277_211110	Normal	EM2123004	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15
	22 Feb 2022	0937_SW277_220222	Normal	EM2203194	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.69
	27 May 2022	0937_SW277_220527	Normal	EM2210252	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.69
	31 Aug 2022	0937_SW277_220831	Normal	EM2216996	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65
	21 Nov 2023	0937_SW277_231121	Normal	EM2320910	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31
SW351	15 Nov 2023	0937_SW351_231115	Normal	EM2320952	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.70	<0.05	<0.05	4.01
SW353	13 Jul 2021	0937_SW353_210713	Normal	EM2113872-AB	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.99
	15 Nov 2021	0937_SW353_211115	Normal	EM2123080	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.6
	23 Aug 2022	0937_SW353_220823	Normal	EM2216476	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.1
	24 Nov 2022	0937_SW353_221124	Normal	EM2223510	<0.02	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.0

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD001	**01 Jun 2016**	**OSD001**	**Normal**	**EM1606490**	0.0453	<0.0002	0.0476	<0.0002	<0.0002	0.0023	0.0003	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Oct 2016	**OSD001**	**Normal**	**EM1612997**	0.123	0.001	0.1308	<0.0002	<0.0002	0.0078	0.0014	0.0002	<0.001	<0.0002	0.0017	0.0003	<0.0002	<0.0002	<0.0002
	03 Dec 2019	**0937_SD001_191203**	**Normal**	**EM1920790**	0.113	0.0002	0.115	<0.0002	<0.0002	0.0018	0.0009	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	**0937_SD001_20200320**	**Normal**	**EM2004707**	0.0643	0.0005	0.0653	<0.0002	<0.0002	0.0010	0.0007	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	**0937_SD001_20200623**	**Normal**	**EM2010693**	0.0218	<0.0002	0.0226	<0.0002	<0.0002	0.0008	0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	**0937_SD001_201113**	**Normal**	**EM2020041**	0.0667	<0.0005	0.0689	<0.0005	<0.0005	0.0022	<0.0005	<0.0005	<0.001	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005
	04 Feb 2021	**0937_SD001_210204**	**Normal**	**EM2101558**	0.108	<0.0002	0.109	<0.0002	<0.0002	0.0009	0.0003	0.0006	<0.001	0.0003	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	**0937_SD001_20210429**	**Normal**	**EM2107856**	0.0525	<0.0002	0.0540	<0.0002	<0.0002	0.0015	0.0002	0.0005	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	**0937_SD001_210806**	**Normal**	**EM2115478**	0.0477	<0.0004	0.0487	<0.0004	<0.0004	0.0010	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	24 Feb 2022	**0937_SD001_220224**	**Normal**	**EM2203197**	0.0749	<0.0004	0.0786	<0.0004	<0.0004	0.0037	0.0005	<0.0004	<0.002	<0.0004	0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	**0937_QC215_220529**	**Interlab_D**	**893740**	0.081	<0.005	0.081	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD001_220529	**Normal**	**EM2210255**	0.0582	<0.0004	0.0608	<0.0004	<0.0004	0.0026	<0.0004	<0.0004	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	**0937_QC115_220529**	**Field_D**	**EM2210255**	0.0676	0.0003	0.0715	<0.0002	<0.0002	0.0039	0.0008	0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	**0937_SD001_220901**	**Normal**	**EM2216994-AD**	0.0598	0.0002	0.0624	<0.0002	<0.0002	0.0026	0.0007	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	**0937_SD001_231121**	**Normal**	**EM2320912**	0.0131	<0.0002	0.0140	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
SD011	**26 Oct 2016**	**OSD011**	**Normal**	**EM1612993**	0.0364	<0.0002	0.0392	<0.0002	<0.0002	0.0028	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	25 Mar 2020	**0937_SD011_20200325**	**Normal**	**EM2005034**	0.0112	<0.0002	0.0125	<0.0002	<0.0002	0.0013	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	**0937_SD011_20200622**	**Normal**	**EM2010690**	0.0241	<0.0002	0.0256	<0.0002	<0.0002	0.0015	0.0004	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	**0937_SD011_201113**	**Normal**	**EM2020047**	0.0678	<0.0002	0.0707	<0.0002	<0.0002	0.0029	0.0006	0.0003	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	**0937_SD011_210202**	**Normal**	**EM2101562**	0.0078	<0.0002	0.0084	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	**0937_SD011_20210430**	**Normal**	**EM2107855**	0.0461	<0.0002	0.0479	<0.0002	<0.0002	0.0018	0.0003	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	**0937_SD011_210806**	**Normal**	**EM2115483**	0.0262	<0.0004	0.0285	<0.0004	<0.0004	0.0023	<0.0004	<0.0004	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	10 Nov 2021	**0937_SD011_211110**	**Normal**	**EM2123004**	0.0351	<0.0002	0.0363	<0.0002	<0.0002	0.0012	0.0003	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	**0937_SD011_220223**	**Normal**	**EM2203194**	0.0205	<0.0004	0.0225	<0.0004	<0.0004	0.0020	<0.0004	<0.0004	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	**0937_SD011_220527**	**Normal**	**EM2210252**	0.0088	<0.0002	0.0096	<0.0002	<0.0002	0.0008	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	**0937_SD011_231122**	**Normal**	**EM2320910**	0.0150	0.0003	0.0187	<0.0002	0.0003	0.0037	0.0008	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
SD014	**26 Oct 2016**	**OSD014**	**Normal**	**EM1612993**	0.0081	<0.0002	0.009	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Mar 2020	**0937_SD014_20200325**	**Normal**	**EM2005034**	0.0599	<0.0002	0.0624	<0.0002	<0.0002	0.0025	0.0006	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	**0937_SD014_20200623**	**Normal**	**EM2010690**	0.0546	0.0003	0.0591	<0.0002	<0.0002	0.0045	0.0012	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	**0937_SD014_201113**	**Normal**	**EM2020047**	0.0156	<0.0002	0.0166	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	**0937_SD014_210202**	**Normal**	**EM2101562**	0.0028	<0.0002	0.0028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	**0937_SD014_20210430**	**Normal**	**EM2107855**	0.0066	<0.0002	0.0076	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	**0937_SD014_210806**	**Normal**	**EM2115483**	0.0716	0.0009	0.0880	<0.0002	0.0008	0.0164	0.0017	<0.0002	<0.001	0.0003	0.0024	0.0003	<0.0002	<0.0002	<0.0002
	10 Nov 2021	**0937_SD014_211110**	**Normal**	**EM2123004**	0.0140	<0.0002	0.0154	<0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	**0937_SD014_220223**	**Normal**	**EM2203194**	0.0132	<0.0003	0.0143	<0.0003	<0.0003	0.0011	<0.0003	<0.0003	<0.002	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	27 May 2022	**0937_SD014_220527**	**Normal**	**EM2210252**	0.0150	0.0003	0.0178	<0.0002	<0.0002	0.0028	0.0004	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	**0937_SD014_231122**	**Normal**	**EM2320910**	0.0596	0.0004	0.0639	<0.0002	<0.0002	0.0043	0.0008	<0.0002	<0.001	<0.0002	0.0006	0.0002	<0.0002	<0.0002	<0.0002
SD015	**26 Oct 2016**	**OSD015**	**Normal**	**EM1612993**	0.016	0.0002	0.0203	<0.0002	<0.0002	0.0043	<0.0002	0.0002	<0.001	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002
	25 Mar 2020	**0937_SD015_20200325**	**Normal**	**EM2005034**	0.0059	<0.0002	0.0085	<0.0002	<0.0002	0.0026	<0.0002	<0.0002	<0.001	0.0003	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	**0937_SD015_20200623**	**Normal**	**EM2010690**	0.0035	<0.0002	0.0049	<0.0002	<0.0002	0.0014	0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	**0937_SD015_201113**	**Normal**	**EM2020047**	0.0114	<0.0002	0.0137	<0.0002	<0.0002	0.0023	0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	**0937_SD015_210203**	**Normal**	**EM2101562**	0.0066	<0.0002	0.0076	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	**0937_SD015_20210430**	**Normal**	**EM2107855**	0.0058	0.0004	0.0110	<0.0002	<0.0002	0.0052	0.0005	<0.0002	<0.001	<0.0002	0.0016	0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	**0937_SD015_220223**	**Normal**	**EM2203194**	0.0085	<0.0004	0.0123	<0.0004	<0.0004	0.0038	<0.0004	<0.0004	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	**0937_SD015_220527**	**Normal**	**EM2210252**	0.0034	<0.0002	0.0048	<0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	**0937_SD015_231122**	**Normal**	**EM2320910**	0.0066	0.0002	0.0098	0.0002	0.0005	0.0032	0.0005	<0.0002	<0.001	0.0004	0.0023	0.0002	<0.0002	<0.0002	<0.0002

Stantec

Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD016	26 Oct 2016	OSD016	Normal	EM1612993	0.0299	0.0003	0.0347	<0.0002	<0.0002	0.0048	<0.0002	<0.0002	<0.001	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002
		QCA407	Field_D	EM1612868	0.019	0.0004	0.0221	<0.0002	<0.0002	0.0031	0.0006	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	0.0004	<0.0002	<0.0002
		QCB408	Interlab_D	521935	0.054	<0.005	0.054	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	25 Mar 2020	0937_SD016_20200325	Normal	EM2005034	0.618	0.0008	0.630	<0.0002	0.0010	0.0118	0.0028	0.0065	<0.001	0.0017	0.0054	0.0007	0.0007	0.0016	0.0006
	22 Jun 2020	0937_SD016_20200622	Normal	EM2010690	0.0502	<0.0002	0.0535	0.0003	<0.0002	0.0033	0.0008	<0.0002	<0.001	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD016_201113	Normal	EM2020047	0.0277	<0.0004	0.0300	<0.0004	<0.0004	0.0023	<0.0004	<0.0004	<0.001	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	02 Feb 2021	0937_SD016_210202	Normal	EM2101562	0.0405	<0.0002	0.0427	<0.0002	<0.0002	0.0022	0.0007	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD016_20210430	Normal	EM2107855	0.0667	0.0003	0.0725	<0.0002	<0.0002	0.0058	0.0013	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	0937_SD016_231122	Normal	EM2320910	0.0920	0.0004	0.0976	0.0004	0.0005	0.0056	0.0022	0.0002	<0.001	0.0003	0.0016	0.0003	<0.0002	<0.0002	<0.0002
SD019	28 Oct 2016	OSD019	Normal	EM1612987	0.0469	0.0003	0.0497	<0.0002	<0.0002	0.0028	<0.0002	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	06 Dec 2016	OSD019	Normal	EM1614830	0.0059	<0.0002	0.0065	<0.0002	<0.0002	0.0006	0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Mar 2020	0937_SD019_20200316	Normal	EM2004774	0.0037	<0.0002	0.0040	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Jun 2020	0937_SD019_200618	Normal	EM2010385	0.0062	<0.0002	0.0083	<0.0002	<0.0002	0.0021	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD019_201112	Normal	EM2020045	0.0017	<0.0002	0.0017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Feb 2021	0937_SD019_210203	Normal	EM2101568	0.0056	<0.0002	0.0056	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Apr 2021	0937_SD019_20210421	Normal	EM2107090	0.0136	<0.0002	0.0139	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Aug 2021	0937_SD019_210804	Normal	EM2115485	0.0086	<0.0002	0.0089	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD019_211111	Normal	EM2123008	0.0084	<0.0002	0.0087	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD019_220222	Normal	EM2203193	0.0080	<0.0004	0.0080	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_SD019_220529	Normal	EM2210260	0.0020	<0.0002	0.0020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Aug 2022	0937_SD019_220830	Normal	EM2216989	0.0139	<0.0002	0.0143	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD019_221130	Normal	EM2223922	0.0081	<0.0002	0.0081	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD019_231121	Normal	EM2320917	0.0009	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD030	26 Oct 2016	OSD030	Normal	EM1612981	0.0789	0.002	0.0918	0.0003	0.0004	0.0129	0.0024	<0.0002	<0.001	0.0014	0.0031	0.001	0.0002	<0.0002	<0.0002
	04 Dec 2019	0937_SD030_191204	Normal	EM1920788	0.0443	<0.0002	0.0461	<0.0002	<0.0002	0.0018	0.0004	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD030_20200319	Normal	EM2004716	0.335	0.0013	0.343	<0.0002	<0.0002	0.0083	0.0033	0.0013	0.002	<0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002
	19 Jun 2020	0937_QC110_200619	Field_D	EM2010383	0.0149	<0.0002	0.0154	<0.0002	<0.0002	0.0005	<0.0002	0.0006	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC210_200619	Interlab_D	726765	0.021	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD030_200619	Normal	EM2010383	0.0194	<0.0002	0.0200	<0.0002	<0.0002	0.0006	<0.0002	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD030_201112	Normal	EM2020042	0.206	0.0006	0.220	<0.0002	0.0003	0.0140	0.0018	0.0013	<0.001	<0.0002	0.0013	0.0003	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD030_210202	Normal	EM2101566	0.224	0.0008	0.229	<0.0002	0.0002	0.0051	0.0016	0.0007	<0.001	0.0003	0.0015	0.0004	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD030_20210428	Normal	EM2107807	0.0344	<0.0002	0.0352	<0.0002	<0.0002	0.0008	0.0006	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD030_210805	Normal	EM2115482	0.870	0.0024	0.955	0.0006	0.0036	0.0846	0.0076	<0.0004	<0.002	<0.0004	0.0030	0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD030_211111	Normal	EM2123005	0.0947	0.0004	0.0988	<0.0002	<0.0002	0.0041	0.0015	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD030_220223	Normal	EM2203198	0.154	0.0006	0.161	<0.0002	0.0003	0.0066	0.0023	0.0006	<0.001	<0.0002	0.0016	0.0003	<0.0002	<0.0002	<0.0002
	29 May 2022	0937_SD030_220529	Normal	EM2210257	0.0657	<0.0002	0.0669	<0.0002	<0.0002	0.0012	0.0005	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD030_220902	Normal	EM2216993	0.128	0.0008	0.148	0.0002	0.0007	0.0199	0.0022	0.0002	<0.001	0.0002	0.0012	0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD030_221130	Normal	EM2223928	0.203	0.0012	0.232	<0.0002	0.0006	0.0291	0.0038	0.0009	<0.001	<0.0002	0.0017	0.0003	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD031	26 Oct 2016	OSD031	Normal	EM1612982	0.021	0.0004	0.0247	0.0003	<0.0002	0.0037	0.0008	<0.0002	<0.001	<0.0002	0.0004	0.0002	<0.0002	<0.0002	<0.0002
	28 Nov 2019	0937_SD031_191128	Normal	EM1920529	0.0008	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD031_20200320	Normal	EM2004718	0.0021	<0.0002	0.0023	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_QC111_200623	Field_D	EM2010696	0.0008	<0.0002	0.0011	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_SD031_200623	Normal	EM2010696	0.0013	<0.0002	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		O973_QC211_200623	Interlab_D	727519	<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
	13 Nov 2020	0937_SD031_201113	Normal	EM2020044	0.0009	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD031_210202	Normal	EM2101565	0.0059	<0.0002	0.0083	<0.0002	<0.0002	0.0024	<0.0002	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD031_20210429	Normal	EM2107809	0.0096	<0.0002	0.0110	<0.0002	<0.0002	0.0014	0.0002	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD031_231123	Normal	EM2320915	0.0014	<0.0002	0.0027	<0.0002	<0.0002	0.0013	<0.0002	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
SD032	26 Oct 2016	OSD032	Normal	EM1612982	0.019	0.0002	0.0207	<0.0002	<0.0002	0.0017	0.0004	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Nov 2019	0937_SD032_191128	Normal	EM1920529	0.0099	<0.0002	0.0114	<0.0002	<0.0002	0.0015	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD032_20200320	Normal	EM2004718	0.0288	0.0005	0.0374	0.0003	0.0005	0.0086	0.0008	0.0004	<0.001	0.0003	0.0019	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD032_200623	Normal	EM2010696	0.0272	0.0004	0.0366	0.0002	0.0005	0.0094	0.0009	<0.0002	<0.001	<0.0002	0.0009	0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD032_201113	Normal	EM2020044	0.0109	<0.0002	0.0111	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD032_210202	Normal	EM2101565	0.0170	<0.0002	0.0180	<0.0002	<0.0002	0.0010	0.0004	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 May 2021	0937_SD032_20210504	Normal	EM2108092	0.0030	<0.0002	0.0036	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD032_210806	Normal	EM2115477	0.0226	<0.0004	0.0275	0.0005	0.0010	0.0049	<0.0004	<0.0004	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
	18 Nov 2021	0937_SD032_211118	Normal	EM2123007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD032_220224	Normal	EM2203200	0.0156	<0.0004	0.0165	<0.0004	<0.0004	0.0009	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	0937_SD032_220531	Normal	EM2210258	0.0111	<0.0002	0.0119	<0.0002	<0.0002	0.0008	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_SD032_220901	Normal	EM2216991	0.154	0.0016	0.173	<0.0002	0.0003	0.0191	0.0058	<0.0002	<0.001	<0.0002	0.0008	0.0003	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD032_221130	Normal	EM2223921	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD032_231123	Normal	EM2320915	0.0035	<0.0002	0.0040	<0.0002	<0.0002	0.0005	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD033	27 Oct 2016	OSD033	Normal	EM1613005	0.0387	0.0004	0.0421	<0.0002	<0.0002	0.0034	0.0008	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Dec 2019	0937_SD033_191203	Normal	EM1920790	0.0034	<0.0002	0.0047	<0.0002	<0.0002	0.0013	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_QC103_20200319	Field_D	EM2004707	0.0242	<0.0002	0.0256	<0.0002	<0.0002	0.0014	<0.0002	0.0004	<0.001	0.0002	0.0003	0.0002	<0.0002	<0.0002	<0.0002
		0937_QC203_20200319	Interlab_D	711148	0.063	<0.005	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
		0937_SD033_20200319	Normal	EM2004707	0.0214	<0.0002	0.0228	<0.0002	<0.0002	0.0014	<0.0002	0.0004	<0.001	0.0004	0.0004	0.0003	<0.0002	<0.0002	<0.0002
	19 Jun 2020	0937_QC108_20200619	Field_D	EM2010382	0.0838	0.0003	0.0878	<0.0002	0.0002	0.0040	0.0003	0.0034	<0.001	0.0008	0.0010	0.0004	<0.0002	<0.0002	0.0002
		0937_QC208_200619	Interlab_D	726765	0.045	<0.005	0.045	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD033_20200619	Normal	EM2010382	0.0781	<0.0002	0.0811	<0.0002	0.0002	0.0030	0.0004	0.0027	<0.001	0.0005	0.0007	0.0003	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD033_201112	Normal	EM2020041	0.0717	<0.0004	0.0740	<0.0004	<0.0004	0.0023	<0.0004	0.0011	<0.001	0.0007	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
	04 Feb 2021	0937_SD033_210204	Normal	EM2101558	0.0516	<0.0002	0.0538	<0.0002	<0.0002	0.0022	0.0003	0.0015	<0.001	0.0004	0.0005	0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_ SD033 _29210429	Normal	EM2107858	0.0394	<0.0002	0.0422	<0.0002	<0.0002	0.0028	0.0003	0.0010	<0.001	0.0008	0.0007	0.0004	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD033_210805	Normal	EM2115478	0.0201	<0.0002	0.0219	<0.0002	<0.0002	0.0018	<0.0002	0.0005	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_QC106_211111	Field_D	EM2123001	0.0365	<0.0002	0.0391	<0.0002	<0.0002	0.0026	0.0003	0.0007	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC206_211111	Interlab_D	847843	0.021	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD033_211111	Normal	EM2123001	0.0102	<0.0002	0.0120	<0.0002	<0.0002	0.0018	<0.0002	0.0003	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD033_220223	Normal	EM2203197	0.0909	0.0004	0.0993	0.0006	0.0006	0.0084	0.0009	0.0022	<0.002	0.0005	0.0009	<0.0003	<0.0003	<0.0003	<0.0003
	31 May 2022	0937_SD033_220528	Normal	EM2210255	0.0232	<0.0002	0.0262	<0.0002	<0.0002	0.0030	0.0004	0.0003	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_QC118_220901	Field_D	EM2216994-AD	0.0402	<0.0002	0.0430	<0.0002	<0.0002	0.0028	0.0003	0.0005	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC218_220831	Interlab_D	922406	0.062	<0.005	0.0679	<0.005	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD033_220901	Normal	EM2216994-AD	0.0385	0.0002	0.0422	<0.0002	0.0003	0.0037	0.0004	0.0007	<0.001	0.0004	0.0005	0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD033_231121	Normal	EM2320912	0.0379	<0.0002	0.0415	0.0003	0.0003	0.0036	0.0005	0.0005	<0.001	0.0003	0.0006	0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
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					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD034	26 Oct 2016	OSD034	Normal	EM1612997	0.135	0.0008	0.143	<0.0002	<0.0002	0.008	0.0015	<0.0002	<0.001	<0.0002	0.002	0.0003	<0.0002	<0.0002	<0.0002
		QCA415	Field_D	EM1612868	0.0936	0.0013	0.102	0.0003	0.0003	0.0084	0.0019	<0.0002	<0.001	0.0003	0.0009	0.0004	<0.0002	<0.0002	<0.0002
		QCB416	Interlab_D	521935	0.23	<0.005	0.24	<0.005		0.01		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	28 Nov 2019	0937_SD034_191128	Normal	EM1920529-AC	0.422	0.0006	0.427	0.0002	<0.0002	0.0047	0.0023	<0.0002	<0.001	0.0004	0.0033	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD034_20200320	Normal	EM2004707	0.104	<0.0005	0.110	<0.0005	<0.0005	0.0056	0.0009	0.0007	<0.001	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005
	18 Jun 2020	0937_SD034_20200618	Normal	EM2010382	0.878	0.0023	0.896	<0.0002	0.0010	0.0180	0.0102	0.0105	0.006	0.0007	0.0069	0.0009	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD034_201113	Normal	EM2020041	0.877	0.0008	0.882	<0.0003	0.0004	0.0053	0.0030	0.0009	<0.001	<0.0003	0.0010	<0.0003	<0.0003	<0.0003	<0.0003
	02 Feb 2021	0937_SD034_210202	Normal	EM2101558	0.693	0.0016	0.699	<0.0004	<0.0004	0.0059	0.0036	0.0046	<0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 Apr 2021	0937_SD034_20210429	Normal	EM2107856	0.298	0.0006	0.305	<0.0002	0.0003	0.0073	0.0029	<0.0002	<0.001	0.0003	0.0021	0.0003	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD034_210806	Normal	EM2115478	0.0285	<0.0004	0.0291	<0.0004	<0.0004	0.0006	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	17 Nov 2021	0937_SD034_211117	Normal	EM2123001	0.748	0.0012	0.757	0.0002	0.0005	0.0088	0.0037	0.0038	<0.001	0.0004	0.0032	0.0004	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD034_220224	Normal	EM2203197	0.35	<0.0004	0.353	<0.0004	<0.0004	0.0027	0.0011	0.0026	<0.002	<0.0004	0.0006	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	0937_SD034_220534	Normal	EM2210255	0.337	0.0005	0.341	<0.0004	<0.0004	0.0039	0.0014	0.0012	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
	01 Sep 2022	0937_SD034_220901	Normal	EM2216994-AD	0.0803	0.0002	0.0829	<0.0002	<0.0002	0.0026	0.0004	0.0004	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD034_231121	Normal	EM2320912	0.0212	0.0004	0.0245	<0.0002	<0.0002	0.0033	0.0005	<0.0002	<0.001	<0.0002	0.0013	0.0003	<0.0002	<0.0002	<0.0002
SD035	26 Oct 2016	OSD035	Normal	EM1612997	0.0534	<0.0002	0.0569	<0.0002	<0.0002	0.0035	0.0005	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	26 Mar 2020	0937_SD035_20200326	Normal	EM2005031	0.0342	<0.0002	0.0355	<0.0002	<0.0002	0.0013	0.0003	0.0005	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD035_20200623	Normal	EM2010693	0.0377	0.0002	0.0400	<0.0002	<0.0002	0.0023	0.0008	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD035_201113	Normal	EM2020041	0.0709	<0.0004	0.0740	<0.0004	<0.0004	0.0031	0.0005	<0.0004	<0.001	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	04 Feb 2021	0937_SD035_210204	Normal	EM2101558	0.150	0.0003	0.151	<0.0002	<0.0002	0.0014	0.0008	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD035_20210429	Normal	EM2107856	0.0824	0.0003	0.0862	<0.0002	<0.0002	0.0038	0.0009	<0.0002	<0.001	<0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD035_220224	Normal	EM2203197	0.0672	0.0005	0.0719	<0.0004	<0.0004	0.0047	0.0008	<0.0004	<0.002	<0.0004	0.0015	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_QC216_220529	Interlab_D	893740	0.093	<0.005	0.093	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD035_220529	Normal	EM2210255	0.0350	0.0003	0.0376	<0.0002	<0.0002	0.0026	0.0006	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	31 May 2022	0937_QC116_220529	Field_D	EM2210255	0.0651	0.0008	0.0725	0.0002	0.0003	0.0074	0.0016	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD035_231121	Normal	EM2320912	0.101	0.0004	0.105	<0.0002	<0.0002	0.0038	0.0012	<0.0002	<0.001	<0.0002	0.0008	0.0002	<0.0002	<0.0002	<0.0002
SD041	26 Oct 2016	OSD041	Normal	EM1612997	0.265	0.0015	0.2767	<0.0002	<0.0002	0.0117	0.0026	<0.0002	<0.001	<0.0002	0.0008	0.0002	<0.0002	<0.0002	<0.0002
	28 Nov 2019	0937_SD041_191128	Normal	EM1920529-AC	0.122	<0.0002	0.124	<0.0002	<0.0002	0.0022	0.0006	0.0011	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD041_20200320	Normal	EM2004707	0.498	0.0008	0.505	0.0003	0.0004	0.0068	0.0022	0.0037	<0.001	0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002
	18 Jun 2020	0937_SD041_20200618	Normal	EM2010382	0.354	0.0011	0.363	<0.0002	0.0005	0.0093	0.0030	0.0051	0.002	0.0003	0.0029	0.0004	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD041_201113	Normal	EM2020041	0.0046	<0.0002	0.0071	<0.0002	<0.0002	0.0025	<0.0002	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD041_210202	Normal	EM2101558	0.0450	<0.0002	0.0460	<0.0002	<0.0002	0.0010	0.0004	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD041_20210429	Normal	EM2107856	0.215	0.0008	0.219	<0.0002	<0.0002	0.0043	0.0023	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD041_210806	Normal	EM2115478	0.166	0.0015	0.174	<0.0002	<0.0002	0.0075	0.0029	<0.0002	<0.001	0.0003	0.0015	0.0003	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD041_211111	Normal	EM2123001	0.122	<0.0002	0.125	<0.0002	<0.0002	0.0026	0.0007	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD041_220224	Normal	EM2203197	0.412	0.0005	0.418	<0.0004	<0.0004	0.0062	0.0015	<0.0004	<0.002	<0.0004	0.0015	<0.0004	<0.0004	<0.0004	<0.0004
	28 May 2022	0937_SD041_220528	Normal	EM2210255	0.0490	0.0002	0.0502	<0.0002	<0.0002	0.0012	0.0007	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_SD041_220831	Normal	EM2216994-AD	0.128	0.0006	0.133	<0.0002	<0.0002	0.0053	0.0016	0.0005	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD041_231121	Normal	EM2320912	0.0139	0.0007	0.0269	0.0003	0.0006	0.0130	0.0007	<0.0002	<0.001	0.0004	0.0026	0.0006	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
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					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD049	27 Oct 2016	OSD049	Normal	EM1613003	0.0037	<0.0002	0.0041	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Dec 2019	0937_SD049_191203	Normal	EM1920780	0.0015	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD049_	Normal	EM2004719	0.0018	<0.0002	0.0018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Jun 2020	0937_SD049_20200618	Normal	EM2010386	0.0061	<0.0002	0.0064	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD049_201112	Normal	EM2020046	0.0040	<0.0002	0.0040	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Feb 2021	0937_SD049_210201	Normal	EM2101559	0.0029	<0.0002	0.0031	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Apr 2021	0937_SD049_20210421	Normal	EM2107088	0.0037	<0.0002	0.0037	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD049_210806	Normal	EM2115480	0.0024	<0.0002	0.0036	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Nov 2021	0937_QC219_211117	Interlab_D	842318	0.021	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	18 Nov 2021	0937_QC119_211118	Field_D	EM2123002	0.0170	<0.0002	0.0223	0.0006	0.0007	0.0053	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_SD049_211118	Normal	EM2123002	0.0184	<0.0002	0.0227	0.0002	0.0005	0.0043	0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD049_220222	Normal	EM2203201	0.0074	<0.0004	0.0074	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	0937_SD049_220531	Normal	EM2210259	0.0041	<0.0002	0.0052	<0.0002	<0.0002	0.0011	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Aug 2022	0937_SD049_220829	Normal	EM2216987	0.0177	<0.0002	0.0191	0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Dec 2022	0937_SD049_221201	Normal	EM2223923	0.0520	0.0002	0.0588	0.0009	0.0005	0.0068	0.0007	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD049_231123	Normal	EM2320918	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD052	26 Oct 2016	OSD052	Normal	EM1612985	0.0107	0.0014	0.0224	0.0004	0.0006	0.0117	0.0009	<0.0002	<0.001	0.0005	0.002	0.0006	<0.0002	<0.0002	<0.0002
	04 Dec 2019	0937_SD052_191204	Normal	EM1920785	2.42	0.0027	2.44	<0.0002	0.0005	0.0227	0.0099	0.0222	<0.001	0.0002	0.0019	0.0005	0.0003	0.0003	<0.0002
	19 Mar 2020	0937_SD052_20200319	Normal	EM2004717	0.645	0.0031	0.666	<0.0002	0.0004	0.0206	0.0060	0.0051	<0.001	0.0003	0.0026	0.0008	0.0005	<0.0002	<0.0002
	23 Jun 2020	0937_SD052_200623	Normal	EM2010691	0.656	0.0024	0.672	0.0002	0.0005	0.0156	0.0056	<0.0002	<0.001	0.0007	0.0029	0.0010	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD052_201112	Normal	EM2020043	0.328	0.0028	0.386	<0.0002	0.0009	0.0585	0.0043	0.0040	<0.001	<0.0002	0.0034	0.0011	<0.0002	<0.0002	<0.0002
	04 Feb 2021	0937_SD052_210204	Normal	EM2101564	0.0952	0.0002	0.0965	<0.0002	<0.0002	0.0013	0.0003	0.0007	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD052_20210429	Normal	EM2107806	0.0560	0.0004	0.0620	<0.0002	0.0002	0.0060	0.0009	<0.0002	<0.001	<0.0002	0.0014	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD052_210805	Normal	EM2115484	1.34	0.0016	1.36	<0.0002	0.0007	0.0179	0.0042	0.0227	<0.001	<0.0002	0.0010	0.0003	0.0004	<0.0002	<0.0002
	11 Nov 2021	0937_SD052_211111	Normal	EM2123006	0.332	0.0012	0.342	<0.0002	0.0005	0.0104	0.0022	0.0060	<0.001	0.0004	0.0028	0.0003	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD052_220223	Normal	EM2203199	0.269	0.0006	0.275	<0.0002	0.0003	0.0057	0.0017	0.0008	<0.001	0.0002	0.0012	0.0002	<0.0002	<0.0002	<0.0002
	28 May 2022	0937_SD052_220528	Normal	EM2210256	0.222	0.0005	0.227	<0.0002	0.0002	0.0051	0.0016	0.0028	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_SD052_220901	Normal	EM2216992	0.775	0.0022	0.808	0.0013	0.0015	0.0328	0.0068	0.0126	<0.001	0.0014	0.0058	0.0008	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD052_231121	Normal	EM2320914	0.221	0.0024	0.240	0.0003	0.0007	0.0186	0.0042	0.0004	<0.001	0.0008	0.0028	0.0007	<0.0002	<0.0002	<0.0002
SD082	25 Mar 2020	0937_SD082_20200325	Normal	EM2005034	0.0016	<0.0002	0.0034	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	<0.001	0.0004	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD082_200623	Normal	EM2010690	0.0136	<0.0002	0.0148	0.0002	<0.0002	0.0012	0.0005	<0.0002	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD082_201113	Normal	EM2020047	0.0049	<0.0002	0.0076	<0.0002	<0.0002	0.0027	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD082_210202	Normal	EM2101562	0.0134	0.0002	0.0159	<0.0002	<0.0002	0.0025	0.0002	<0.0002	<0.001	0.0005	0.0013	0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD082_20210430	Normal	EM2107855	0.0014	<0.0002	0.0031	<0.0002	<0.0002	0.0017	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD082_210806	Normal	EM2115483	0.0159	<0.0002	0.0183	<0.0002	<0.0002	0.0024	0.0004	<0.0002	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD082_211111	Normal	EM2123004	0.0013	<0.0002	0.0020	<0.0002	<0.0002	0.0007	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD082_220223	Normal	EM2203194	0.0047	<0.0004	0.0054	<0.0004	<0.0004	0.0007	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	0937_SD082_220527	Normal	EM2210252	0.0008	<0.0002	0.0032	0.0002	0.0004	0.0024	<0.0002	<0.0002	<0.001	<0.0002	0.0023	0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_QC114_220831	Field_D	EM2216996	0.0009	<0.0002	0.0021	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	0.0014	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC214_220831	Interlab_D	922406	<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
		0937_SD082_220831	Normal	EM2216996	0.0015	<0.0002	0.0030	0.0002	0.0002	0.0015	<0.0002	<0.0002	<0.001	<0.0002	0.0011	0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	0937_SD082_231122	Normal	EM2320910	<0.0002	<0.0002	0.0006	<0.0002	0.0003	0.0006	<0.0002	<0.0002	<0.001	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD088	19 Mar 2020	0937_SD088_20200319	Normal	EM2004706	0.338	<0.0005	0.343	<0.0005	<0.0005	0.0046	0.0029	0.0011	<0.001	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005
	18 Jun 2020	0937_SD088_20200618	Normal	EM2010381	0.490	0.0017	0.502	<0.0002	0.0007	0.0124	0.0048	<0.0002	<0.001	<0.0002	0.0026	0.0004	0.0003	<0.0002	<0.0002
	12 Nov 2020	0937_SD088_201112	Normal	EM2020047	0.567	0.0012	0.576	<0.0005	0.0006	0.0091	0.0038	<0.0005	<0.001	<0.0005	0.0020	0.0006	<0.0005	<0.0005	<0.0005
	02 Feb 2021	0937_SD088_210202	Normal	EM2101562	0.0144	0.0003	0.0164	<0.0002	<0.0002	0.0020	<0.0002	<0.0002	<0.001	<0.0002	0.0016	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD088_20210429	Normal	EM2107855	0.149	0.0008	0.160	<0.0002	0.0004	0.0107	0.0030	<0.0002	<0.001	0.0002	0.0023	0.0004	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD088_210805	Normal	EM2115483	0.0275	<0.0004	0.0297	<0.0004	<0.0004	0.0022	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD088_211111	Normal	EM2123004	0.432	0.0005	0.436	<0.0002	<0.0002	0.0039	0.0034	0.0015	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD088_2220222	Normal	EM2203194	0.294	<0.0004	0.297	<0.0004	<0.0004	0.0028	0.0007	0.0007	<0.002	<0.0004	0.0006	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_SD088_220529	Normal	EM2210252	0.0986	0.0012	0.106	<0.0002	<0.0002	0.0077	0.0026	<0.0002	<0.001	<0.0002	0.0007	0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_QC115_220831	Field_D	EM2216996	0.0785	0.0004	0.0834	<0.0002	<0.0002	0.0049	0.0018	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC215_220831	Interlab_D	922406	0.13	<0.005	0.1368	<0.005	<0.005	0.0068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD088_220831	Normal	EM2216996	0.180	0.0008	0.187	<0.0002	0.0002	0.0066	0.0030	0.0003	<0.001	<0.0002	0.0009	0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD088_231121	Normal	EM2320910	0.0166	<0.0002	0.0174	<0.0002	<0.0002	0.0008	0.0005	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD089	25 Mar 2020	0937_SD089_20200326	Normal	EM2005034	0.0968	<0.0002	0.102	<0.0002	<0.0002	0.0050	0.0009	0.0005	<0.001	0.0003	0.0013	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD089_20200623	Normal	EM2010690	0.0571	<0.0002	0.0597	0.0002	<0.0002	0.0026	0.0016	<0.0002	<0.001	0.0003	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD089_201113	Normal	EM2020047	0.144	0.0003	0.153	<0.0002	0.0006	0.0086	0.0011	0.0002	<0.001	0.0008	0.0026	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD089_210202	Normal	EM2101562	0.0538	<0.0002	0.0550	<0.0002	<0.0002	0.0012	0.0004	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD089_20210430	Normal	EM2107855	0.321	0.0003	0.328	<0.0002	0.0002	0.0070	0.0022	<0.0002	<0.001	<0.0002	0.0017	<0.0002	<0.0002	<0.0002	<0.0002
	04 Aug 2021	0937_SD089_210804	Normal	EM2115483	0.103	0.0006	0.123	0.0013	0.0020	0.0197	0.0014	<0.0004	<0.002	0.0005	0.0032	<0.0004	<0.0004	<0.0004	<0.0004
	10 Nov 2021	0937_SD089_211110	Normal	EM2123004	0.0038	<0.0002	0.0048	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD089_220222	Normal	EM2203194	0.147	<0.0003	0.148	<0.0003	<0.0003	0.0015	<0.0003	0.0010	<0.002	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	27 May 2022	0937_SD089_220527	Normal	EM2210252	0.0117	<0.0002	0.0134	<0.0002	<0.0002	0.0017	0.0003	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_QC116_220831	Field_D	EM2216996	0.0072	<0.0002	0.0080	<0.0002	<0.0002	0.0008	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC216_220831	Interlab_D	922406	0.016	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD089_220831	Normal	EM2216996	0.0120	<0.0002	0.0130	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD089_231121	Normal	EM2320910	0.0126	<0.0002	0.0156	<0.0002	<0.0002	0.0030	0.0004	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
SD201	13 Oct 2016	SD201	Normal	EM1612198	0.248	0.0023	0.2891	0.0044	0.0043	0.0411	0.0034	0.002	<0.001	0.0004	0.0035	0.0004	<0.0002	<0.0002	<0.0002
	26 Nov 2019	0937_SD201_191126	Normal	EM1920529	0.217	0.0006	0.223	<0.0002	<0.0002	0.0064	0.0017	0.0041	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD201_20200317	Normal	EM2004711	0.248	0.0013	0.259	<0.0005	0.0005	0.0108	0.0021	0.0018	<0.001	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005
	16 Jun 2020	0937_SD201_200616	Normal	EM2010514	0.0273	<0.0002	0.0283	<0.0002	<0.0002	0.0010	<0.0002	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD201_201110	Normal	EM2020050	0.197	0.0010	0.209	0.0003	0.0005	0.0123	0.0023	0.0036	<0.001	0.0005	0.0015	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_QC103_210128	Field_D	EM2101229	0.275	0.0010	0.291	0.0006	0.0008	0.0156	0.0042	0.0044	<0.001	<0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC203_210128	Interlab_D	770470	0.33	<0.005	0.347	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD201_210128	Normal	EM2101229	0.525	0.0012	0.546	0.0006	0.0010	0.0206	0.0040	0.0055	<0.001	0.0009	0.0012	0.0003	<0.0002	<0.0002	<0.0002
	22 Apr 2021	0937_ SD201 _20210422	Normal	EM2107085	0.0169	<0.0002	0.0181	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	0937_SD201_210713	Normal	EM2113872-AB	0.0558	<0.0002	0.0589	<0.0002	<0.0002	0.0031	0.0004	0.0006	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2021	0937_SD201_211109	Normal	EM2123080	0.171	0.0008	0.182	0.0004	0.0006	0.0109	0.0017	0.0016	<0.001	0.0005	0.0011	0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD201_220218	Normal	EM2202703	0.182	0.0009	0.199	0.0009	0.0012	0.0167	0.0028	0.0026	<0.001	0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002
	24 May 2022	0937_SD201_2205	Normal	EM2210316	0.0491	<0.0002	0.0528	<0.0002	<0.0002	0.0037	0.0005	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD201_220823	Normal	EM2216476	0.274	0.0011	0.285	0.0006	0.0004	0.0114	0.0024	0.0032	<0.001	0.0004	0.0016	0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2022	0937_SD201_221122	Normal	EM2223510	0.192	0.0008	0.202	0.0003	0.0004	0.0095	0.0016	0.0019	<0.001	0.0003	0.0012	0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD201_231116	Normal	EM2320952	0.174	0.0014	0.182	0.0003	0.0005	0.0079	0.0014	0.0033	<0.001	0.0006	0.0018	0.0006	<0.0002	<0.0002	<0.0002

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD206	**13 Oct 2016**	**SD206**	**Normal**	**EM1612198**	0.206	0.0004	0.2108	<0.0002	0.0004	0.0048	0.0015	0.0014	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	**0937_SD206_20200317**	**Normal**	**EM2004711**	0.0267	0.0005	0.0295	0.0002	0.0004	0.0028	0.0004	0.0003	<0.001	0.0004	0.0015	0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	**0937_SD206_20200616**	**Normal**	**EM2010514**	0.0371	0.0007	0.0411	<0.0002	0.0005	0.0040	0.0005	0.0005	<0.001	0.0002	0.0025	0.0005	<0.0002	<0.0002	<0.0002
	28 Jan 2021	**0937_SD206_210128**	**Normal**	**EM2101229**	0.0013	<0.0002	0.0016	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	**0937_ SD206 _20210426**	**Normal**	**EM2107858**	0.0038	<0.0002	0.0047	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	**0937_SD206_210713**	**Normal**	**EM2113872-AB**	0.0053	<0.0002	0.0057	<0.0002	<0.0002	0.0004	<0.0002	0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
SD208	**14 Oct 2016**	**SD208**	**Normal**	**EM1612198**	0.011	<0.0002	0.0138	<0.0002	0.0002	0.0028	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2019	**0937_QC100_191121**	**Field_D**	**EM1920039**	0.0028	<0.0002	0.0034	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	0.0005	0.0004	<0.0002	<0.0002	<0.0002
		0937_QC200_191121	**Interlab_D**	**690346**	0.065	<0.005	0.079	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD208_191121	**Normal**	**EM1920039**	0.0020	<0.0002	0.0023	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	**0937_SD208_20200317**	**Normal**	**EM2004711**	0.0158	<0.0002	0.0179	<0.0002	<0.0002	0.0021	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	**0937_SD208_200615**	**Normal**	**EM2010514**	0.0777	<0.0002	0.0791	<0.0002	<0.0002	0.0014	0.0003	0.0009	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	**0937_SD208_201110**	**Normal**	**EM2020050**	0.0113	<0.0004	0.0138	0.0006	<0.0004	0.0025	<0.0004	<0.0004	<0.001	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	28 Jan 2021	**0937_SD208_210128**	**Normal**	**EM2101229**	0.0030	<0.0002	0.0041	<0.0002	<0.0002	0.0011	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	**0937_ SD208_20210428**	**Normal**	**EM2107858**	0.0031	<0.0002	0.0035	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	**0937_SD208_210713**	**Normal**	**EM2113872-AB**	0.0199	<0.0002	0.0220	<0.0002	<0.0002	0.0021	0.0003	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	**0937_SD208_211112**	**Normal**	**EM2123080**	0.0403	<0.0004	0.0453	<0.0004	<0.0004	0.0050	0.0008	<0.0004	<0.002	0.0006	<0.0004	<0.0004	<0.0004	0.0007	<0.0004
	16 Feb 2022	**0937_SD208_220216**	**Normal**	**EM2202703**	0.0062	<0.0002	0.0068	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 May 2022	**0937_QC105_220525**	**Field_D**	**EM2210316**	0.230	0.0029	0.281	0.0019	0.0032	0.0511	0.0079	0.0008	0.002	0.0334	0.0177	0.0069	0.0004	0.0005	0.0003
		0937_QC205_220525	**Interlab_D**	**893740**	0.21	<0.005	0.265	<0.005	<0.005	0.055	0.0056	<0.005	<0.005	0.035	0.018	0.0065	<0.005	<0.005	<0.005
		0937_SD208_220525	**Normal**	**EM2210316**	0.158	0.0025	0.202	0.0023	0.0031	0.0438	0.0060	0.0011	0.002	0.0352	0.0158	0.0070	0.0003	0.0002	0.0002
	23 Aug 2022	**0937_SD208_220823**	**Normal**	**EM2216476**	0.0017	<0.0002	0.0020	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	**0937_SD208_221124**	**Normal**	**EM2223972**	0.0053	<0.0002	0.0074	<0.0002	<0.0002	0.0021	0.0002	<0.0002	<0.001	0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002
SD209	**20 Nov 2019**	**0937_SD209_191120**	**Normal**	**EM1920039**	21.0	0.0940	21.7	0.0200	0.0410	0.696	0.503	0.168	0.009	0.0100	0.100	0.0080	<0.0050	<0.0050	<0.0050
	17 Mar 2020	**0937_SD209_20200317**	**Normal**	**EM2004711**	2.68	0.0262	2.81	0.0080	0.0092	0.129	0.0610	0.0823	0.004	0.0053	0.0304	0.0050	0.0005	0.0008	0.0009
	16 Jun 2020	**0937_SD209_200616**	**Normal**	**EM2010514**	11.1	0.106	11.7	0.0717	0.0846	0.622	0.263	0.200	0.037	0.0657	0.388	0.0298	<0.0010	0.0029	<0.0010
	10 Nov 2020	**0937_SD209_201110**	**Normal**	**EM2020050**	0.251	0.0056	0.346	0.0122	0.0130	0.0951	0.0078	0.0118	0.002	0.0062	0.0526	0.0041	<0.0002	<0.0002	<0.0002
	28 Jan 2021	**0937_SD209_210128**	**Normal**	**EM2101229**	0.708	0.0079	0.798	0.0062	0.0049	0.0895	0.0155	0.0190	0.001	0.0032	0.0175	0.0020	<0.0002	0.0003	0.0004
	22 Apr 2021	**0937_ SD209 _20210422**	**Normal**	**EM2107085**	0.798	0.0068	0.855	0.0033	0.0034	0.0569	0.0175	0.0337	<0.001	0.0014	0.0080	0.0009	<0.0004	0.0004	0.0004
	13 Jul 2021	**0937_SD209_210713**	**Normal**	**EM2113872-AB**	0.111	0.0007	0.119	0.0006	0.0005	0.0080	0.0014	0.0033	<0.001	0.0003	0.0018	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2021	**0937_SD209_211115**	**Normal**	**EM2123080**	0.906	0.0162	1.03	0.0068	0.0087	0.125	0.0283	0.0405	0.003	0.0051	0.0279	0.0057	0.0002	0.0005	0.0007
	22 Feb 2022	**0937_SD209_220222**	**Normal**	**EM2203247**	1.72	0.0095	1.83	0.0086	0.0156	0.113	0.0156	0.126	<0.002	0.0037	0.0325	0.0041	0.0007	0.0023	0.0026
	17 Nov 2023	**0937_SD209_231117**	**Normal**	**EM2320952**	0.975	0.0143	1.09	0.0030	0.0062	0.116	0.0301	0.0210	<0.001	0.0024	0.0116	0.0022	0.0003	<0.0002	0.0002
SD216	**20 Oct 2016**	**SD216**	**Normal**	**EM1612570**	0.0217	<0.0002	0.0234	<0.0002	<0.0002	0.0017	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	**0937_SD216_191125**	**Normal**	**EM1920529**	0.0338	<0.0002	0.0350	<0.0002	<0.0002	0.0012	0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	**0937_SD216_200615**	**Normal**	**EM2010514**	0.0974	0.0003	0.102	0.0005	0.0006	0.0051	0.0005	0.0007	<0.001	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	**0937_QC103_201110**	**Field_D**	**EM2020050**	0.0240	<0.0002	0.0269	0.0003	0.0002	0.0029	0.0003	<0.0002	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC203_201110	**Interlab_D**	**757178**	0.023	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD216_201110	**Normal**	**EM2020050**	0.0233	<0.0002	0.0256	<0.0002	<0.0002	0.0023	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	**0937_SD216_210128**	**Normal**	**EM2101229**	0.146	0.0004	0.153	0.0009	0.0004	0.0072	0.0006	0.0011	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002

Stantec

Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD217	**14 Oct 2016**	**SD217**	**Normal**	**EM1612198**	0.434	0.0032	0.4885	0.003	0.0033	0.0545	0.0058	0.0055	<0.001	0.001	0.0046	0.0006	<0.0002	<0.0002	<0.0002
	19 Mar 2020	**0937_SD217_20200319**	**Normal**	**EM2004711**	0.518	0.0028	0.553	0.0068	0.0037	0.0353	0.0039	0.0034	0.003	0.0019	0.0059	<0.0005	<0.0005	<0.0005	<0.0005
	16 Jun 2020	**0937_SD217_200616**	**Normal**	**EM2010514**	0.162	0.0040	0.284	0.0122	0.0170	0.122	0.0039	0.0018	0.004	0.0022	0.0151	0.0013	<0.0002	<0.0002	<0.0002
	10 Nov 2020	**0937_SD217_201110**	**Normal**	**EM2020050**	1.00	0.0025	1.04	0.0027	0.0025	0.0425	0.0091	0.0077	0.003	0.0015	0.0037	0.0006	<0.0002	0.0003	0.0003
	29 Jan 2021	**0937_SD217_210129**	**Normal**	**EM2101229**	0.628	0.0017	0.657	0.0015	0.0016	0.0294	0.0072	0.0518	0.003	0.0013	0.0030	0.0004	<0.0002	0.0002	0.0003
	27 Apr 2021	**0937_ SD217_20210427**	**Normal**	**EM2107858**	0.573	0.0020	0.619	0.0028	0.0022	0.0456	0.0072	0.0385	0.002	0.0012	0.0038	0.0004	<0.0002	<0.0002	<0.0002
	15 Jul 2021	**0937_SD217_210715**	**Normal**	**EM2113872-AB**	0.682	0.0021	0.727	0.0017	0.0014	0.0453	0.0073	0.0338	0.002	0.0019	0.0039	0.0004	<0.0002	<0.0002	<0.0002
	16 Nov 2021	**0937_SD217_211116**	**Normal**	**EM2123080**	0.204	0.0021	0.211	0.0006	0.0004	0.0073	0.0025	0.0015	0.003	0.0017	0.0021	0.0005	<0.0002	<0.0002	<0.0002
	15 Feb 2022	**0937_SD217_220215**	**Normal**	**EM2202703**	0.495	0.002	0.538	0.0032	0.0026	0.043	0.0092	0.0483	0.002	0.0013	0.0041	0.0003	<0.0002	<0.0002	<0.0002
	31 May 2022	**0937_SD217_220530**	**Normal**	**EM2210316**	0.829	0.0029	0.875	0.0018	0.0019	0.0459	0.0069	0.0177	0.002	0.0016	0.0042	0.0005	<0.0002	<0.0002	0.0003
	26 Aug 2022	**0937_SD217_220826**	**Normal**	**EM2216476**	0.548	0.0017	0.576	0.0014	0.0014	0.0279	0.0037	0.0116	0.002	0.0014	0.0029	0.0004	<0.0002	<0.0002	<0.0002
	24 Nov 2022	**0937_SD217_221124**	**Normal**	**EM2223510**	0.646	0.0019	0.679	0.0012	0.0013	0.0332	0.0048	0.0176	0.001	0.0009	0.0028	0.0003	<0.0002	<0.0002	<0.0002
	17 Nov 2023	**0937_SD217_231117**	**Normal**	**EM2320952**	1.08	0.0032	1.13	0.0017	0.0025	0.0506	0.0063	0.0202	0.001	0.0014	0.0042	0.0008	0.0002	0.0003	0.0002
SD223	**12 Oct 2016**	**SD223**	**Normal**	**EM1612198**	0.0166	0.0002	0.0208	<0.0002	<0.0002	0.0042	0.0005	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2019	**0937_SD223_191129**	**Normal**	**EM1920529**	0.0350	<0.0002	0.0384	<0.0002	0.0002	0.0034	<0.0002	<0.0002	<0.001	0.0007	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	**0937_SD223_20200317**	**Normal**	**EM2004711**	0.0186	<0.0002	0.0209	0.0011	<0.0002	0.0023	<0.0002	<0.0002	<0.001	0.0012	0.0011	0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	**0937_SD223_20200617**	**Normal**	**EM2010514**	0.0301	<0.0002	0.0325	<0.0002	<0.0002	0.0024	<0.0002	<0.0002	<0.001	0.0005	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	**0937_QC106_201110**	**Field_D**	**EM2020050**	0.0609	<0.0005	0.0642	<0.0005	<0.0005	0.0033	<0.0005	<0.0005	<0.001	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005
		0937_QC206_201110	**Interlab_D**	**757178**	0.048	<0.005	0.048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD223_201110	**Normal**	**EM2020050**	0.0371	<0.0005	0.0394	<0.0005	<0.0005	0.0023	<0.0005	<0.0005	0.003	0.0010	0.0007	<0.0005	<0.0005	<0.0005	<0.0005
	28 Jan 2021	**0937_SD223_210128**	**Normal**	**EM2101229**	0.0080	<0.0004	0.0085	<0.0004	<0.0004	0.0005	<0.0004	<0.0004	<0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	28 Apr 2021	**0937_ SD223_20210428**	**Normal**	**EM2107858**	0.0100	<0.0002	0.0107	<0.0002	<0.0002	0.0007	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	**0937_QC207_210713**	**Interlab_D**	**811260**	0.13	<0.005	0.151	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	14 Jul 2021	**0937_QC107_210714**	**Field_D**	**EM2113872-AB**	0.0448	<0.0037	0.0514	<0.0037	<0.0037	0.0066	<0.0037	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037
	15 Jul 2021	**0937_SD223_210715**	**Normal**	**EM2113872-AB**	0.0474	<0.0035	0.0511	<0.0035	<0.0035	0.0037	<0.0035	<0.0035	<0.017	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
	15 Nov 2021	**0937_SD223_211115**	**Normal**	**EM2123080**	0.0430	0.0003	0.0462	0.0003	0.0002	0.0032	0.0006	0.0007	<0.001	0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	16 Feb 2022	**0937_SD223_220217**	**Normal**	**EM2202703**	0.0306	<0.0002	0.0328	<0.0002	<0.0002	0.0022	<0.0002	<0.0002	<0.001	0.001	0.0018	<0.0002	<0.0002	<0.0002	<0.0002
	25 May 2022	**0937_SD223_220525**	**Normal**	**EM2210316**	0.0423	<0.0004	0.0456	0.0006	<0.0004	0.0033	<0.0004	<0.0004	<0.002	0.0048	0.0062	0.0015	<0.0004	<0.0004	<0.0004
	24 Aug 2022	**0937_SD223_220824**	**Normal**	**EM2216476**	0.0441	0.0002	0.0487	0.0003	0.0004	0.0046	0.0004	0.0008	<0.001	0.0025	0.0014	0.0011	<0.0002	0.0003	<0.0002
	16 Nov 2023	**0937_SD223_231116**	**Normal**	**EM2320952**	0.0272	<0.0004	0.0307	<0.0004	<0.0004	0.0035	<0.0004	<0.0004	<0.002	0.0011	0.0023	<0.0004	<0.0004	<0.0004	<0.0004
SD226	**13 Oct 2016**	**SD226**	**Normal**	**EM1612198**	0.811	0.0038	0.8765	0.0055	0.0053	0.0655	0.0066	0.0158	<0.001	0.0021	0.0088	0.001	<0.0002	<0.0002	<0.0002
	25 Nov 2019	**0937_SD226_191125**	**Normal**	**EM1920529**	0.556	0.0047	0.618	0.0068	0.0055	0.0618	0.0074	0.0186	0.004	0.0050	0.0241	0.0012	<0.0002	0.0002	0.0004
	17 Mar 2020	**0937_SD226_20200317**	**Normal**	**EM2004711**	0.692	0.0050	0.755	0.0038	0.0041	0.0632	0.0073	0.0215	0.004	0.0037	0.0144	0.0009	<0.0005	<0.0005	<0.0005
	16 Jun 2020	**0937_SD226_20200616**	**Normal**	**EM2010514**	0.370	0.0028	0.396	0.0028	0.0030	0.0263	0.0039	0.0260	0.003	0.0020	0.0068	0.0007	<0.0002	<0.0002	0.0002
	10 Nov 2020	**0937_SD226_201110**	**Normal**	**EM2020050**	0.171	0.0015	0.194	0.0019	0.0015	0.0228	0.0033	0.0186	0.002	0.0016	0.0041	0.0004	<0.0002	<0.0002	<0.0002
	28 Jan 2021	**0937_SD226_210128**	**Normal**	**EM2101229**	0.489	0.0022	0.523	0.0016	0.0020	0.0340	0.0091	0.0377	0.002	0.0016	0.0053	0.0005	<0.0002	<0.0002	0.0003
	28 Apr 2021	**0937_ SD226_20210428**	**Normal**	**EM2107858**	0.422	0.0022	0.460	0.0025	0.0026	0.0376	0.0057	0.0278	0.001	0.0016	0.0054	0.0006	<0.0002	<0.0002	<0.0002
	14 Jul 2021	**0937_SD226_210714**	**Normal**	**EM2113872-AB**	0.342	0.0017	0.372	0.0026	0.0016	0.0301	0.0056	0.0191	0.002	0.0022	0.0056	0.0004	<0.0002	<0.0002	<0.0002
	12 Nov 2021	**0937_SD226_2111012**	**Normal**	**EM2123080**	0.316	0.0007	0.326	0.0007	0.0006	0.0097	0.0028	0.0136	<0.001	0.0004	0.0008	0.0003	<0.0002	<0.0002	<0.0002
	22 Feb 2022	**0937_SD226_220222**	**Normal**	**EM2203247**	0.311	0.0027	0.362	0.0084	0.0044	0.0515	0.0042	0.0152	0.004	0.0044	0.0134	0.0009	<0.0002	<0.0002	<0.0002
	26 May 2022	**0937_SD226_220525**	**Normal**	**EM2210316**	0.705	0.0030	0.755	0.0073	0.0056	0.0503	0.0073	0.0184	0.003	0.0030	0.0109	0.0011	<0.0002	<0.0002	0.0003
	23 Aug 2022	**0937_SD226_220823**	**Normal**	**EM2216476**	0.423	0.0017	0.448	0.0027	0.0024	0.0252	0.0038	0.0158	0.002	0.0024	0.0052	0.0006	<0.0002	<0.0002	<0.0002
	23 Nov 2022	**0937_SD226_221123**	**Normal**	**EM2223510**	0.330	0.0019	0.356	0.0028	0.0022	0.0259	0.0034	0.0213	0.003	0.0021	0.0056	0.0005	<0.0002	<0.0002	0.0003
	17 Nov 2023	**0937_SD226_231117**	**Normal**	**EM2320952**	0.377	0.0017	0.397	0.0014	0.0015	0.0203	0.0019	0.0225	0.001	0.0015	0.0036	0.0005	<0.0002	<0.0002	0.0004

Stantec

Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD227	**14 Oct 2016**	**SD227**	**Normal**	**EM1612198**	0.0236	0.0008	0.0244	<0.0002	<0.0002	0.0008	<0.0002	0.0005	<0.001	0.0004	0.0005	<0.0002	0.0005	0.0003	<0.0002
	25 Nov 2019	**0937_SD227_191125**	**Normal**	**EM1920529**	0.0020	<0.0002	0.0020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	**0937_SD227_20200317**	**Normal**	**EM2004711**	0.0022	<0.0002	0.0022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	**0937_SD227_200616**	**Normal**	**EM2010514**	0.0034	0.0002	0.0036	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	0.0003	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	**0937_SD227_201110**	**Normal**	**EM2020050**	0.0096	<0.0002	0.0099	<0.0002	<0.0002	0.0003	<0.0002	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	**0937_SD227_210128**	**Normal**	**EM2101229**	0.0037	<0.0002	0.0041	<0.0002	<0.0002	0.0004	<0.0002	0.0003	<0.001	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	**0937_ SD227_20210428**	**Normal**	**EM2107858**	0.0047	<0.0002	0.0054	<0.0002	<0.0002	0.0007	<0.0002	0.0009	<0.001	0.0003	0.0004	0.0002	<0.0002	<0.0002	<0.0002
	14 Jul 2021	**0937_QC112_210714**	**Field_D**	**EM2113872-AB**	0.0018	0.0006	0.0018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002
		0937_QC212_210714	**Interlab_D**	**811260**	<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
		0937_SD227_210714	**Normal**	**EM2113872-AB**	0.0028	0.0007	0.0028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0002	0.0003	<0.0002	<0.0002	<0.0002
	16 Nov 2021	**0937_SD227_211116**	**Normal**	**EM2123080**	0.0063	0.0007	0.0066	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002
	21 Feb 2022	**0937_SD227_220221**	**Normal**	**EM2203247**	0.0155	<0.0002	0.0161	<0.0002	<0.0002	0.0006	<0.0002	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	0.0006	<0.0002
	25 May 2022	**0937_QC111_220525**	**Field_D**	**EM2210316**	0.0035	0.0003	0.0035	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC211_220525	**Interlab_D**	**893740**	<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
		0937_SD227_220525	**Normal**	**EM2210316**	0.0041	0.0003	0.0044	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002
	24 Aug 2022	**0937_SD227_220824**	**Normal**	**EM2216476**	0.0083	0.0006	0.0089	<0.0002	<0.0002	0.0006	<0.0002	0.0003	<0.001	0.0004	0.0005	0.0003	0.0003	<0.0002	<0.0002
	24 Nov 2022	**0937_SD227_221124**	**Normal**	**EM2223510**	0.0035	<0.0002	0.0037	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	**0937_QC116_231116**	**Field_D**	**EM2320952**	0.0036	0.0007	0.0038	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0002	0.0003	<0.0002	<0.0002	<0.0002
		0937_QC216_231116	**Interlab_D**	**1048259**	<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
		0937_SD227_231116	**Normal**	**EM2320952**	0.0040	0.0006	0.0042	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0003	0.0002	<0.0002	<0.0002	<0.0002
SD230	**13 Oct 2016**	**SD230**	**Normal**	**EM1612198**	0.0347	0.0002	0.0392	<0.0002	<0.0002	0.0045	0.0004	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	**0937_SD230_191125**	**Normal**	**EM1920529**	0.0085	<0.0002	0.0088	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Mar 2020	**0937_SD230_20200318**	**Normal**	**EM2004711**	0.0424	<0.0002	0.0464	<0.0002	0.0003	0.0040	0.0005	0.0011	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	**0937_SD230_200617**	**Normal**	**EM2010514**	0.108	0.0016	0.119	<0.0002	0.0005	0.0108	0.0010	0.0024	<0.001	0.0004	0.0018	0.0003	<0.0002	<0.0002	<0.0002
	11 Nov 2020	**0937_SD230_201111**	**Normal**	**EM2020050**	0.0207	<0.0002	0.0231	0.0002	0.0002	0.0024	0.0002	0.0006	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	01 Feb 2021	**0937_SD230_210201**	**Normal**	**EM2101575**	0.0239	0.0002	0.0265	<0.0002	<0.0002	0.0026	0.0002	0.0008	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	**0937_ SD230 _20210427**	**Normal**	**EM2107858**	0.0134	<0.0002	0.0141	<0.0002	<0.0002	0.0007	<0.0002	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	**0937_SD230_210715**	**Normal**	**EM2113872-AB**	0.0346	<0.0002	0.0391	<0.0002	<0.0002	0.0045	0.0003	0.0005	<0.001	0.0003	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	**0937_SD230_211112**	**Normal**	**EM2123080**	0.0618	0.0004	0.0694	0.0004	0.0004	0.0076	0.0007	0.0008	<0.001	0.0002	0.0006	0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	**0937_QC114_220218**	**Field_D**	**EM2202703**	0.0616	0.0002	0.0656	0.0002	0.0002	0.004	0.0004	0.0024	<0.001	0.0054	0.0048	0.0015	<0.0002	<0.0002	<0.0002
		0937_QC214_220218	**Interlab_D**	**864735**	0.07	<0.005	0.07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD230_220218	**Normal**	**EM2202703**	0.0534	0.0005	0.0569	0.0003	0.0002	0.0035	0.0004	0.0018	<0.001	0.0065	0.0058	0.0024	<0.0002	<0.0002	<0.0002
	30 May 2022	**0937_SD230_220530**	**Normal**	**EM2210316**	0.0535	0.0014	0.0582	<0.0002	<0.0002	0.0047	0.0005	0.0009	<0.001	0.0018	0.0023	0.0008	<0.0002	<0.0002	<0.0002
	23 Aug 2022	**0937_SD230_220823**	**Normal**	**EM2216476**	0.0349	0.0005	0.0386	0.0002	<0.0002	0.0037	<0.0002	0.0009	0.001	0.0028	0.0018	0.0007	<0.0002	<0.0002	<0.0002
	29 Nov 2022	**0937_SD230_221129**	**Normal**	**EM2223972**	0.0313	0.0009	0.0369	<0.0002	0.0002	0.0056	0.0004	0.0005	<0.001	0.0016	0.0020	0.0008	<0.0002	<0.0002	<0.0002
	15 Nov 2023	**0937_QC106_231115**	**Field_D**	**EM2320952**	0.0170	<0.0002	0.0179	<0.0002	<0.0002	0.0009	<0.0002	0.0003	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC206_231115	**Interlab_D**	**1048259**	0.016	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD230_231115	**Normal**	**EM2320952**	0.0159	<0.0002	0.0166	<0.0002	<0.0002	0.0007	<0.0002	0.0003	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
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					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD231	13 Oct 2016	SD231	Normal	EM1612198	0.378	0.004	0.484	0.0038	0.005	0.106	0.0066	0.0031	<0.001	0.0004	0.0072	0.0004	<0.0002	<0.0002	<0.0002
	26 Nov 2019	0937_SD231_191126	Normal	EM1920529	0.0256	0.0003	0.0274	<0.0002	<0.0002	0.0018	<0.0002	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD231_20200317	Normal	EM2004711	0.0776	<0.0002	0.0817	0.0003	0.0004	0.0041	0.0004	0.0012	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD231_200616	Normal	EM2010514	0.277	0.0005	0.288	0.0004	0.0005	0.0105	0.0010	0.0072	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD231_201110	Normal	EM2020050	0.179	<0.0002	0.185	0.0003	0.0002	0.0064	0.0008	0.0040	<0.001	0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_QC108_210129	Field_D	EM2101229	0.0737	<0.0002	0.0779	0.0003	0.0003	0.0042	0.0005	0.0010	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC208_210128	Interlab_D	770470	0.35	<0.005	0.364	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD231_210129	Normal	EM2101229	0.0610	<0.0002	0.0651	0.0002	0.0002	0.0041	0.0003	0.0015	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_ SD231 _20210426	Normal	EM2107858	0.175	0.0003	0.186	0.0006	0.0004	0.0111	0.0013	0.0028	<0.001	0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD231_210715	Normal	EM2113872-AB	0.130	0.0003	0.134	<0.0002	<0.0002	0.0041	0.0006	0.0014	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD231_211112	Normal	EM2123080	0.0356	0.0003	0.0387	0.0004	<0.0002	0.0031	0.0003	0.0014	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_QC117_220218	Field_D	EM2202703	0.155	0.0009	0.182	0.0018	0.0019	0.0265	0.0027	0.0026	<0.001	<0.0002	0.003	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC217_220218	Interlab_D	864735	0.24	<0.005	0.266	<0.005	<0.005	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD231_220218	Normal	EM2202703	0.133	0.0007	0.155	0.0014	0.0014	0.0224	0.0026	0.0035	<0.001	<0.0002	0.0027	0.0002	<0.0002	<0.0002	<0.0002
	26 May 2022	0937_SD231_220526	Normal	EM2210316	0.0761	0.0002	0.0818	0.0002	<0.0002	0.0057	0.0009	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD231_220823	Normal	EM2216476	0.0122	<0.0002	0.0134	<0.0002	<0.0002	0.0012	<0.0002	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD231_221128	Normal	EM2223972	0.0751	0.0005	0.0957	0.0007	0.0011	0.0206	0.0015	0.0016	<0.001	<0.0002	0.0013	<0.0002	<0.0002	<0.0002	<0.0002
	20 Nov 2023	0937_SD231_231120	Normal	EM2320952	0.0575	0.0003	0.0680	0.0006	0.0009	0.0105	0.0007	0.0012	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
SD233	13 Oct 2016	SD233	Normal	EM1612198	0.15	0.0023	0.2209	0.003	0.0028	0.0709	0.0057	<0.0002	<0.001	0.0003	0.0056	<0.0002	<0.0002	<0.0002	<0.0002
	26 Nov 2019	0937_SD233_191126	Normal	EM1920529	0.0227	0.0003	0.0320	0.0006	0.0009	0.0093	0.0005	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	26 Mar 2020	0937_SD233_20209326	Normal	EM2005033	0.0729	<0.0002	0.0770	0.0003	<0.0002	0.0041	0.0005	0.0011	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD233_200616	Normal	EM2010514	0.0428	0.0002	0.0465	0.0002	0.0003	0.0037	0.0003	0.0006	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD233_200623	Normal	EM2010697	0.0155	0.0002	0.0213	0.0007	0.0004	0.0058	0.0004	<0.0002	<0.001	0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD233_201110	Normal	EM2020050	0.0709	<0.0002	0.0738	<0.0002	<0.0002	0.0029	0.0004	0.0007	<0.001	0.0008	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD233_210128	Normal	EM2101229	0.0398	<0.0002	0.0432	0.0002	0.0002	0.0034	<0.0002	0.0006	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_ SD233 _20210426	Normal	EM2107858	0.0467	<0.0002	0.0491	0.0002	<0.0002	0.0024	<0.0002	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD233_210715	Normal	EM2113872-AB	0.0861	0.0003	0.0918	<0.0002	0.0002	0.0057	0.0008	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2021	0937_QC111_211115	Field_D	EM2123080	0.0448	0.0006	0.0540	0.0003	0.0004	0.0092	0.0013	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC211_211115	Interlab_D	842318	0.087	<0.005	0.106	<0.005	<0.005	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD233_211115	Normal	EM2123080	0.0439	0.0004	0.0474	<0.0002	0.0002	0.0035	0.0008	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Feb 2022	0937_SD233_220216	Normal	EM2202703	0.074	0.0003	0.0813	0.0007	0.0006	0.0073	0.0008	0.0008	<0.001	0.0002	0.0012	<0.0002	<0.0002	<0.0002	<0.0002
	26 May 2022	0937_SD233_220526	Normal	EM2210316	0.0363	<0.0002	0.0388	0.0003	<0.0002	0.0025	<0.0002	0.0003	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	25 Aug 2022	0937_SD233_220825	Normal	EM2216476	0.0281	<0.0002	0.0308	<0.0002	<0.0002	0.0027	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	24 Nov 2022	0937_SD233_221124	Normal	EM2223510	0.128	0.0004	0.135	<0.0002	0.0004	0.0069	0.0008	0.0011	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD233_231116	Normal	EM2320952	0.0486	<0.0002	0.0533	<0.0002	0.0002	0.0047	0.0004	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

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					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD239	13 Oct 2016	SD239	Normal	EM1612198	0.177	0.0013	0.1985	0.0005	0.001	0.0215	0.0024	0.0046	<0.001	<0.0002	0.0023	0.0003	<0.0002	<0.0002	0.0003
	26 Nov 2019	0937_SD239_191126	Normal	EM1920529	0.169	0.0008	0.182	0.0009	<0.0002	0.0130	0.0010	0.0039	0.001	0.0032	0.0120	0.0011	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD239_20200317	Normal	EM2004711	1.65	0.298	3.39	0.120	0.304	1.74	0.0930	<0.0005	0.031	0.114	0.517	0.171	0.0016	<0.0005	<0.0005
	16 Jun 2020	0937_SD239_20200616	Normal	EM2010514	0.191	0.0009	0.201	<0.0002	0.0006	0.0097	0.0010	0.0094	<0.001	0.0027	0.0049	0.0009	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD239_201110	Normal	EM2020050	2.77	0.0060	2.81	0.0108	0.0056	0.0380	0.0223	0.0003	0.007	0.0068	0.0261	0.0031	0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD239_210128	Normal	EM2101229	0.0383	0.0003	0.0425	0.0023	0.0008	0.0042	0.0005	0.0003	0.001	0.0006	0.0012	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_QC104_20210426	Field_D	EM2107858	0.0918	0.0004	0.0989	0.0004	0.0003	0.0071	0.0009	0.0069	<0.001	0.0004	0.0014	<0.0002	<0.0002	<0.0002	<0.0002
		QC204_20210426	Interlab_D	792537	0.098	<0.005	0.098	<0.005	<0.005	<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	30 Apr 2021	0937_ SD239 _20210426	Normal	EM2107858	0.0664	0.0004	0.0720	0.0003	0.0003	0.0056	0.0008	0.0054	<0.001	0.0004	0.0013	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD239_210715	Normal	EM2113872-AB	0.0225	<0.0002	0.0240	<0.0002	<0.0002	0.0015	<0.0002	0.0006	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD239_211112	Normal	EM2123080	0.478	0.0189	0.553	0.0077	0.0070	0.0748	0.0156	<0.0002	0.006	0.0068	0.0172	0.0036	0.0003	<0.0002	<0.0002
	17 Feb 2022	0937_SD239_220217	Normal	EM2202703	0.534	0.0022	0.57	0.0033	0.0028	0.036	0.0074	0.0316	<0.001	0.0015	0.0058	0.0008	<0.0002	<0.0002	<0.0002
	26 May 2022	0937_SD239_220526	Normal	EM2210316	0.101	0.0009	0.115	0.0006	0.0010	0.0143	0.0017	0.0065	<0.001	0.0021	0.0023	0.0010	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD239_220823	Normal	EM2216476	0.117	0.0005	0.125	<0.0002	0.0002	0.0083	0.0013	0.0078	<0.001	0.0011	0.0008	0.0004	<0.0002	<0.0002	0.0003
	24 Nov 2022	0937_SD239_221124	Normal	EM2223510	0.160	0.0008	0.172	0.0004	0.0006	0.0122	0.0017	0.0069	<0.001	0.0006	0.0014	0.0003	<0.0002	<0.0002	0.0002
	17 Nov 2023	0937_SD239_231117	Normal	EM2320952	0.0789	0.0006	0.0861	0.0004	0.0007	0.0072	0.0008	0.0170	<0.001	0.0002	0.0014	0.0003	<0.0002	<0.0002	0.0003
SD242	12 Oct 2016	SD242	Normal	EM1612198	0.184	0.0006	0.193	0.0004	0.0005	0.009	0.0014	0.0028	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD242_191125	Normal	EM1920529	0.330	0.0008	0.345	0.0008	0.0007	0.0151	0.0021	0.0062	<0.001	0.0004	0.0024	0.0002	0.0003	<0.0002	<0.0002
	17 Mar 2020	0937_SD242_20200317	Normal	EM2004711	0.304	0.0008	0.314	0.0004	0.0005	0.0105	0.0015	0.0075	0.002	0.0002	0.0010	<0.0002	0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD242_2020061	Normal	EM2010514	0.345	0.0009	0.357	0.0011	0.0008	0.0123	0.0017	0.0101	<0.001	<0.0002	0.0011	0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD242_200623	Normal	EM2010697	0.473	0.0008	0.482	0.0006	0.0004	0.0085	0.0025	0.0074	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD242_201110	Normal	EM2020050	0.401	0.0006	0.413	0.0006	0.0004	0.0120	0.0022	0.0064	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD242_210128	Normal	EM2101229	0.221	0.0006	0.230	0.0005	0.0005	0.0088	0.0014	0.0074	<0.001	0.0003	0.0009	0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	0937_ SD242 _20210428	Normal	EM2107858	0.564	0.0014	0.578	0.0003	0.0004	0.0137	0.0035	0.0083	<0.001	0.0003	0.0018	0.0003	<0.0002	<0.0002	<0.0002
	14 Jul 2021	0937_QC110_210714	Field_D	EM2113872-AB	0.133	<0.0004	0.137	<0.0004	<0.0004	0.0042	<0.0004	0.0033	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
		0937_QC210_210714	Interlab_D	811260	0.13	<0.005	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
		0937_SD242_210714	Normal	EM2113872-AB	0.120	<0.0002	0.124	0.0002	0.0002	0.0037	0.0006	0.0060	<0.001	0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD242_211112	Normal	EM2123080	0.173	0.0002	0.179	0.0005	0.0004	0.0056	0.0013	0.0055	<0.001	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD242_220218	Normal	EM2202703	0.173	0.0003	0.181	0.0006	0.0006	0.0078	0.0012	0.0119	<0.001	0.0006	0.0011	0.0003	<0.0002	<0.0002	<0.0002
	25 May 2022	0937_SD242_220525	Normal	EM2210316	0.209	0.0002	0.216	0.0004	0.0003	0.0065	0.0012	0.0035	<0.001	0.0004	0.0006	0.0005	<0.0002	<0.0002	<0.0002
	24 Aug 2022	0937_SD242_220824	Normal	EM2216476	0.0691	<0.0002	0.0733	0.0004	0.0005	0.0042	0.0006	0.0020	<0.001	0.0003	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD242_221123	Normal	EM2223510	0.330	0.0007	0.346	0.0011	0.0010	0.0161	0.0025	0.0106	<0.001	<0.0002	0.0006	0.0003	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_QC111_231116	Field_D	EM2320952	0.0682	<0.0002	0.0702	<0.0002	<0.0002	0.0020	0.0004	0.0023	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC211_231116	Interlab_D	1048259	0.068	<0.005	0.068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD242_231116	Normal	EM2320952	0.0531	<0.0002	0.0546	<0.0002	<0.0002	0.0015	0.0002	0.0017	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

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					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD246	12 Oct 2016	SD246	Normal	EM1612198	0.0475	0.0005	0.0538	0.0002	0.0003	0.0063	0.0006	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD246_191125	Normal	EM1920529	0.0743	0.0003	0.0828	0.0007	0.0005	0.0085	0.0008	0.0013	<0.001	0.0012	0.0021	0.0006	<0.0002	<0.0002	<0.0002
	18 Mar 2020	0937_SD246_20200318	Normal	EM2004711	0.0436	0.0005	0.0469	<0.0002	<0.0002	0.0033	0.0003	0.0004	<0.001	0.0004	0.0009	0.0003	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD246_200617	Normal	EM2010514	0.0338	<0.0002	0.0374	0.0002	0.0003	0.0036	0.0003	0.0004	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD246_201111	Normal	EM2020050	0.123	0.0004	0.127	<0.0002	<0.0002	0.0041	0.0007	0.0016	<0.001	0.0003	0.0006	0.0004	<0.0002	<0.0002	<0.0002
	01 Feb 2021	0937_SD246_210201	Normal	EM2101575	0.105	0.0006	0.113	0.0002	0.0002	0.0076	0.0011	0.0023	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	27 Apr 2021	0937_QC106_20210427	Field_D	EM2107858	0.0600	0.0003	0.0645	<0.0002	<0.0002	0.0045	0.0005	0.0008	<0.001	0.0004	0.0006	0.0003	<0.0002	<0.0002	<0.0002
		0937_SD246_20210427	Normal	EM2107858	0.0667	0.0003	0.0717	<0.0002	<0.0002	0.0050	0.0006	0.0009	<0.001	0.0003	0.0009	0.0003	<0.0002	<0.0002	<0.0002
		QC206_20210427	Interlab_D	792537	0.14	<0.005	0.1472	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	04 Aug 2021	0937_QC124_210804	Field_D	EM2115476	0.0783	0.0006	0.0853	0.0003	0.0002	0.0070	0.0007	0.0006	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC224_210804	Interlab_D	815502	0.096	<0.005	0.1033	<0.005	<0.005	0.0073	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD246_210804	Normal	EM2115476	0.0687	<0.0004	0.0747	<0.0004	<0.0004	0.0060	0.0004	0.0005	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004
	12 Nov 2021	0937_SD246_211112	Normal	EM2123080	0.0496	0.0003	0.0558	0.0003	0.0003	0.0062	0.0006	0.0011	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_QC113_220218	Field_D	EM2202703	0.0865	0.0004	0.0924	0.0004	0.0004	0.0059	0.0007	0.0022	<0.001	0.0009	0.0014	0.0004	<0.0002	<0.0002	<0.0002
		0937_QC213_220218	Interlab_D	864735	0.091	<0.005	0.0982	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD246_220218	Normal	EM2202703	0.0947	0.0005	0.102	0.0005	0.0004	0.0072	0.0008	0.003	<0.001	0.0019	0.0022	0.0008	<0.0002	<0.0002	<0.0002
	30 May 2022	0937_SD246_220530	Normal	EM2210316	0.0651	0.0006	0.0707	<0.0002	0.0002	0.0056	0.0006	0.0006	<0.001	0.0011	0.0011	0.0007	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD246_220823	Normal	EM2216476	0.0836	0.0005	0.0878	0.0003	<0.0002	0.0042	0.0004	0.0011	<0.001	0.0007	0.0013	0.0003	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD246_221129	Normal	EM2223972	0.0643	0.0027	0.0771	0.0003	0.0005	0.0128	0.0010	0.0004	<0.001	0.0016	0.0037	0.0009	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD246_231115	Normal	EM2320952	0.0796	0.0003	0.0831	<0.0002	<0.0002	0.0035	0.0006	0.0018	<0.001	0.0029	0.0022	0.0010	<0.0002	<0.0002	<0.0002
SD247	13 Oct 2016	SD247	Normal	EM1612198	0.0078	<0.0002	0.0084	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD247_191125	Normal	EM1920529	0.0043	<0.0002	0.0047	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_QC105_20200320	Field_D	EM2004711	0.0188	<0.0002	0.0201	<0.0002	<0.0002	0.0013	<0.0002	0.0003	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC205_20200320	Interlab_D	711148	0.036	<0.005	0.036	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD247_20200320	Normal	EM2004711	0.0133	<0.0002	0.0143	<0.0002	<0.0002	0.0010	<0.0002	0.0004	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_QC104_200617	Field_D	EM2010514	0.0043	<0.0002	0.0047	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC204_200617	Interlab_D	726765	0.013	<0.005	0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD247_200617	Normal	EM2010514	0.0070	<0.0002	0.0076	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	09 Nov 2020	0937_SD247_201109	Normal	EM2020050	0.0083	0.0002	0.0104	0.0003	0.0002	0.0021	<0.0002	0.0002	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	27 Jan 2021	0937_SD247_210127	Normal	EM2101229	0.0031	<0.0002	0.0033	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_ SD247 _20210420	Normal	EM2107085	0.0066	<0.0002	0.0077	<0.0002	<0.0002	0.0011	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD247_210715	Normal	EM2113872-AB	0.0044	<0.0002	0.0050	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Nov 2021	0937_QC117_211117	Field_D	EM2123080	0.0498	<0.0002	0.0534	0.0002	0.0002	0.0036	0.0004	0.0012	<0.001	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC217_211117	Interlab_D	842318	0.018	<0.005	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD247_211117	Normal	EM2123080	0.0053	<0.0002	0.0057	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD247_220218	Normal	EM2202703	0.0078	<0.0002	0.0094	0.0002	<0.0002	0.0016	<0.0002	0.0002	<0.001	0.0037	0.0024	0.0011	<0.0002	<0.0002	<0.0002
	31 May 2022	0937_SD247_220530	Normal	EM2210316	0.0147	<0.0002	0.0157	<0.0002	<0.0002	0.0010	<0.0002	0.0005	<0.001	0.0015	0.0010	0.0003	<0.0002	<0.0002	<0.0002
	25 Aug 2022	0937_SD247_220825	Normal	EM2216476	0.0457	0.0003	0.0501	0.0002	<0.0002	0.0044	0.0005	0.0007	<0.001	0.0012	0.0009	0.0004	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD247_231115	Normal	EM2320952	0.0089	<0.0002	0.0095	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	0.0007	0.0005	<0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD249	**13 Oct 2016**	**SD249**	**Normal**	**EM1612198**	0.0132	<0.0002	0.0148	<0.0002	<0.0002	0.0016	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	27 Nov 2019	**0937_SD249_191127**	**Normal**	**EM1920529**	0.0191	<0.0002	0.0211	<0.0002	<0.0002	0.0020	<0.0002	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	**0937_SD249_20200320**	**Normal**	**EM2004711**	0.0192	<0.0002	0.0204	<0.0002	<0.0002	0.0012	<0.0002	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	**0937_SD249_20200617**	**Normal**	**EM2010514**	0.0037	<0.0002	0.0043	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	**0937_SD249_201112**	**Normal**	**EM2020050**	0.0266	<0.0002	0.0281	0.0002	0.0002	0.0015	0.0002	0.0006	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	03 Feb 2021	**0937_SD249_210203**	**Normal**	**EM2101575**	0.0111	<0.0002	0.0117	<0.0002	<0.0002	0.0006	<0.0002	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	**0937_SD249_20210429**	**Normal**	**EM2107858**	0.0096	<0.0002	0.0103	<0.0002	<0.0002	0.0007	<0.0002	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	**0937_SD249_210715**	**Normal**	**EM2113872-AB**	0.0142	<0.0002	0.0150	<0.0002	<0.0002	0.0008	<0.0002	0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Nov 2021	**0937_SD249_211117**	**Normal**	**EM2123080**	0.0138	<0.0002	0.0149	<0.0002	<0.0002	0.0011	<0.0002	0.0002	<0.001	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	**0937_SD249_220221**	**Normal**	**EM2203247**	0.0096	<0.0002	0.0105	<0.0002	<0.0002	0.0009	<0.0002	0.0003	<0.001	0.0016	0.001	0.0003	<0.0002	<0.0002	<0.0002
	30 May 2022	**0937_SD249_220530**	**Normal**	**EM2210316**	0.0125	<0.0002	0.0133	<0.0002	<0.0002	0.0008	<0.0002	0.0004	<0.001	0.0018	0.0009	0.0004	<0.0002	<0.0002	<0.0002
	02 Sep 2022	**0937_SD249_220902**	**Normal**	**EM2217000**	0.0231	<0.0002	0.0247	<0.0002	<0.0002	0.0016	<0.0002	0.0004	<0.001	0.0020	0.0009	0.0004	<0.0002	<0.0002	<0.0002
	29 Nov 2022	**0937_SD249_221129**	**Normal**	**EM2223972**	0.0208	<0.0002	0.0228	<0.0002	<0.0002	0.0020	<0.0002	0.0008	<0.001	0.0016	0.0013	0.0006	<0.0002	<0.0002	<0.0002
	15 Nov 2023	**0937_SD249_231115**	**Normal**	**EM2320952**	0.0215	<0.0002	0.0223	<0.0002	<0.0002	0.0008	<0.0002	0.0005	<0.001	0.0021	0.0013	0.0006	<0.0002	<0.0002	<0.0002
SD251	**13 Oct 2016**	**SD251**	**Normal**	**EM1612198**	0.0461	0.0004	0.0523	0.0004	0.0004	0.0062	0.0012	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	02 Dec 2019	**0937_QC106_191202**	**Field_D**	**EM1920780**	0.0927	0.0002	0.0962	<0.0002	<0.0002	0.0035	0.0005	0.0044	<0.001	0.0004	0.0007	0.0002	<0.0002	<0.0002	<0.0002
		0937_QC206_191203	**Interlab_D**	**EM1920780**	0.0296	<0.0002	0.0308	<0.0002	<0.0002	0.0012	<0.0002	0.0013	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
		0937_SD251_191202	**Normal**	**EM1920780**	0.0425	<0.0002	0.0442	<0.0002	<0.0002	0.0017	0.0002	0.0022	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	**0937_SD251_20200320**	**Normal**	**EM2004711**	0.0562	<0.0002	0.0580	<0.0002	<0.0002	0.0018	0.0003	0.0028	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	**0937_SD251_200617**	**Normal**	**EM2010514**	0.0259	<0.0002	0.0276	<0.0002	<0.0002	0.0017	<0.0002	0.0006	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	**0937_SD251_201112**	**Normal**	**EM2020050**	0.124	0.0003	0.130	0.0004	0.0004	0.0061	0.0006	0.0026	<0.001	0.0017	0.0017	0.0007	<0.0002	<0.0002	0.0002
	29 Jan 2021	**0937_SD251_210129**	**Normal**	**EM2101229**	0.0128	<0.0002	0.0133	<0.0002	<0.0002	0.0005	<0.0002	0.0006	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Apr 2021	**0937_ SD251 _20210420**	**Normal**	**EM2107085**	0.0695	0.0004	0.0751	0.0005	0.0003	0.0056	0.0006	0.0038	<0.001	0.0010	0.0014	0.0003	<0.0002	0.0005	0.0002
	05 Aug 2021	**0937_SD251_210805**	**Normal**	**EM2115476**	0.0755	<0.0004	0.0817	<0.0004	<0.0004	0.0062	0.0005	0.0013	<0.002	0.0007	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
	18 Nov 2021	**0937_SD251_211118**	**Normal**	**EM2123080**	0.0211	<0.0002	0.0225	<0.0002	<0.0002	0.0014	0.0003	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	**0937_SD251_220221**	**Normal**	**EM2203247**	0.0024	<0.0002	0.0041	<0.0002	<0.0002	0.0017	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	31 May 2022	**0937_SD251_220530**	**Normal**	**EM2210316**	0.0083	<0.0002	0.0101	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	**0937_SD251_220823**	**Normal**	**EM2216476**	0.0049	<0.0002	0.0063	<0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	**0937_SD251_221130**	**Normal**	**EM2223972**	0.0226	<0.0002	0.0246	<0.0002	<0.0002	0.0020	0.0003	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2023	**0937_SD251_231115**	**Normal**	**EM2320952**	0.0383	0.0002	0.0418	0.0002	0.0003	0.0035	0.0005	0.0007	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD256	13 Oct 2016	SD256	Normal	EM1612198	0.0392	0.0005	0.0467	0.0005	0.0002	0.0075	0.0008	0.0008	<0.001	<0.0002	0.001	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2019	0937_SD256_191122	Normal	EM1920034	0.290	0.0007	0.301	0.0005	0.0007	0.0108	0.0017	0.0099	0.002	0.0135	0.0128	0.0022	<0.0002	0.0002	0.0004
	17 Mar 2020	0937_SD256_20200317	Normal	EM2004711	1.33	0.0087	1.38	0.0012	0.0018	0.0502	0.0184	<0.0002	<0.001	0.0020	0.0044	0.0013	0.0012	<0.0002	<0.0002
	16 Jun 2020	0937_SD256_20200616	Normal	EM2010514	0.121	0.0006	0.126	0.0002	0.0003	0.0051	0.0008	0.0151	<0.001	0.0007	0.0016	0.0004	<0.0002	<0.0002	0.0003
	10 Nov 2020	0937_QC205_201110	Interlab_D	757178	0.064	<0.005	0.064	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD256_201110	Normal	EM2020050	0.0391	<0.0002	0.0421	0.0002	0.0003	0.0030	0.0003	0.0034	<0.001	0.0003	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD256_210128	Normal	EM2101229	0.0885	0.0002	0.0931	0.0002	0.0003	0.0046	0.0007	0.0090	<0.001	0.0007	0.0008	0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_QC103_20210426	Field_D	EM2107858	0.120	0.0005	0.130	0.0007	0.0006	0.0099	0.0014	0.0150	<0.001	0.0007	0.0018	0.0003	<0.0002	<0.0002	<0.0002
		0937_ SD256_20210426	Normal	EM2107858	0.0965	0.0004	0.102	0.0004	0.0004	0.0060	0.0010	0.0134	<0.001	0.0005	0.0012	0.0002	<0.0002	<0.0002	<0.0002
		QC203_20210426	Interlab_D	792537	0.12	<0.005	0.12	<0.005	<0.005	<0.005	<0.005	0.0084	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	14 Jul 2021	0937_QC116_210714	Field_D	EM2113872-AB	0.0096	<0.0002	0.0106	<0.0002	<0.0002	0.0010	<0.0002	0.0007	<0.001	0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC216_210714	Interlab_D	811260	0.018	<0.005	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD256_210714	Normal	EM2113872-AB	0.0140	<0.0002	0.0149	<0.0002	<0.0002	0.0009	<0.0002	0.0007	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD256_211112	Normal	EM2123080	0.0218	<0.0002	0.0232	<0.0002	<0.0002	0.0014	0.0002	0.0011	<0.001	0.0004	0.0002	0.0002	<0.0002	<0.0002	<0.0002
	17 Feb 2022	0937_SD256_220217	Normal	EM2202703	0.0011	0.0002	0.0066	0.0019	0.0014	0.0055	<0.0002	<0.0002	<0.001	0.0019	0.0052	0.0006	<0.0002	<0.0002	<0.0002
	26 May 2022	0937_SD256_220526	Normal	EM2210316	0.204	0.0022	0.217	0.0008	0.0008	0.0133	0.0044	<0.0002	<0.001	0.0014	0.0027	0.0008	<0.0002	<0.0002	<0.0002
	24 Aug 2022	0937_SD256_220824	Normal	EM2216476	0.0573	0.0010	0.0652	<0.0002	<0.0002	0.0079	0.0007	0.0007	<0.001	0.0006	0.0010	0.0004	<0.0002	<0.0002	<0.0002
	28 Nov 2022	0937-QC211-221128	Interlab_D	946451	0.048	<0.005	0.0532	<0.005	<0.005	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	29 Nov 2022	0937_QC111_221128	Field_D	EM2223972	0.0346	0.0003	0.0393	0.0002	0.0002	0.0047	0.0006	0.0005	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		0937_SD256_221128	Normal	EM2223972	0.0251	0.0002	0.0285	<0.0002	<0.0002	0.0034	0.0004	0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	20 Nov 2023	0937_SD256_231120	Normal	EM2320952	0.0600	0.0003	0.0626	0.0002	<0.0002	0.0026	0.0004	0.0084	<0.001	0.0003	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
SD257	13 Oct 2016	SD257	Normal	EM1612198	0.263	0.0033	0.3338	0.0014	0.003	0.0708	0.0062	<0.0002	<0.001	0.0006	0.0086	0.0008	<0.0002	<0.0002	<0.0002
	02 Dec 2019	0937_QC107_191202	Field_D	EM1920780	0.0903	0.0009	0.104	0.0004	0.0007	0.0140	0.0012	0.0004	<0.001	0.0079	0.0058	0.0026	<0.0002	<0.0002	<0.0002
		0937_QC207_191202	Interlab_D	EM1920780	0.0244	0.0003	0.0291	0.0002	0.0003	0.0047	0.0004	<0.0002	<0.001	0.0048	0.0035	0.0012	<0.0002	<0.0002	<0.0002
		0937_SD257_191202	Normal	EM1920780	0.0404	0.0004	0.0452	<0.0002	0.0003	0.0048	0.0005	<0.0002	<0.001	0.0026	0.0020	0.0009	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD257_20200317	Normal	EM2004711	0.0171	0.0003	0.0213	0.0003	<0.0002	0.0042	0.0003	<0.0002	<0.001	0.0003	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD257_20200617	Normal	EM2010514	0.195	0.0006	0.205	0.0006	0.0006	0.0097	0.0010	0.0071	<0.001	0.0009	0.0030	0.0005	<0.0002	0.0002	<0.0002
	11 Nov 2020	0937_SD257_201111	Normal	EM2020050	0.0285	<0.0002	0.0297	<0.0002	<0.0002	0.0012	<0.0002	0.0003	<0.001	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD257_210129	Normal	EM2101229	0.0436	<0.0002	0.0450	<0.0002	<0.0002	0.0014	0.0003	0.0003	<0.001	0.0014	0.0010	0.0005	<0.0002	<0.0002	<0.0002
	28 Apr 2021	0937_ SD257_20210428	Normal	EM2107858	0.0456	0.0003	0.0492	<0.0002	<0.0002	0.0036	0.0005	0.0007	<0.001	0.0015	0.0016	0.0008	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD257_210715	Normal	EM2113872-AB	0.0389	0.0002	0.0442	<0.0002	<0.0002	0.0053	0.0004	0.0004	<0.001	0.0003	0.0009	0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD257_211118	Normal	EM2123080	0.0210	0.0008	0.0592	0.0004	0.0012	0.0382	0.0009	0.0002	<0.001	0.0003	0.0014	0.0005	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD257_220218	Normal	EM2202703	0.0571	0.0003	0.0638	0.0006	0.0006	0.0067	0.0007	0.0011	<0.001	0.0004	0.0012	0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD257_220823	Normal	EM2216476	0.0156	<0.0002	0.0159	<0.0002	<0.0002	0.0003	<0.0002	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Nov 2023	0937_SD257_231120	Normal	EM2320952	0.0766	<0.0002	0.0793	<0.0002	<0.0002	0.0027	0.0006	0.0013	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD258	13 Oct 2016	SD258	Normal	EM1612198	0.0808	0.0008	0.0964	0.0006	0.0005	0.0156	0.0028	<0.0002	<0.001	<0.0002	0.0013	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD258_20200318	Normal	EM2004711	0.0355	<0.0002	0.0363	<0.0002	<0.0002	0.0008	<0.0002	0.0012	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD258_20200615	Normal	EM2010514	0.178	0.0004	0.182	<0.0002	0.0002	0.0043	0.0009	0.0098	<0.001	0.0004	0.0011	0.0003	<0.0002	0.0002	0.0002
	09 Nov 2020	0937_SD258_201109	Normal	EM2020050	0.0465	<0.0002	0.0483	<0.0002	<0.0002	0.0018	0.0003	0.0025	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_QC110_210129	Field_D	EM2101229	0.0562	0.0003	0.0604	<0.0002	0.0002	0.0042	0.0005	0.0009	<0.001	0.0009	0.0012	0.0006	<0.0002	<0.0002	<0.0002
		0937_QC210_210129	Interlab_D	770470	0.1	<0.005	0.1062	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD258_210129	Normal	EM2101229	0.0721	0.0004	0.0765	0.0002	<0.0002	0.0044	0.0007	0.0014	<0.001	0.0010	0.0012	0.0007	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_ SD258 _20210420	Normal	EM2107085	0.0474	<0.0002	0.0510	<0.0002	<0.0002	0.0036	0.0003	0.0029	<0.001	0.0005	0.0007	0.0003	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD258_210804	Normal	EM2115476	0.0446	0.0004	0.0482	<0.0002	0.0002	0.0036	0.0005	0.0003	<0.001	0.0005	0.0007	0.0005	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD258_211118	Normal	EM2123080	0.0503	0.0010	0.0563	0.0003	0.0004	0.0060	0.0010	<0.0002	<0.001	0.0005	0.0007	0.0003	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_QC119_220221	Field_D	EM2203247	0.102	0.0005	0.108	0.0004	0.0003	0.0062	0.0006	0.0012	<0.001	0.0005	0.0013	0.0003	<0.0002	<0.0002	<0.0002
		0937_QC219_220221	Interlab_D	866689	0.13	<0.005	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
		0937_SD258_220221	Normal	EM2203247	0.109	0.0005	0.115	0.0004	0.0004	0.0064	0.0006	0.001	<0.001	0.0006	0.0014	0.0003	<0.0002	<0.0002	<0.0002
	30 May 2022	0937_SD258_220530	Normal	EM2210316	0.0445	0.0003	0.0480	0.0002	<0.0002	0.0035	0.0005	0.0005	<0.001	0.0003	0.0006	0.0002	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD258_220902	Normal	EM2217000	0.0659	0.0004	0.0711	<0.0002	0.0002	0.0052	0.0005	<0.0002	<0.001	0.0004	0.0007	0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD258_221123	Normal	EM2223510	0.108	0.0004	0.113	<0.0002	0.0003	0.0051	0.0008	0.0011	<0.001	0.0002	0.0005	0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_QC113_231116	Field_D	EM2320952	0.0816	0.0004	0.0868	0.0002	0.0004	0.0052	0.0007	0.0013	<0.001	0.0005	0.0008	0.0003	<0.0002	<0.0002	<0.0002
		0937_QC213_231116	Interlab_D	1048259	0.088	<0.005	0.0938	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD258_231116	Normal	EM2320952	0.0250	<0.0002	0.0275	0.0002	0.0002	0.0025	<0.0002	0.0004	<0.001	0.0004	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
SD259	13 Oct 2016	SD259	Normal	EM1612198	0.0234	<0.0002	0.0273	0.0002	0.0002	0.0039	0.0004	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	02 Dec 2019	0937_QC105_191202	Field_D	EM1920780	0.0854	0.0002	0.0888	<0.0002	<0.0002	0.0034	0.0005	0.0036	<0.001	0.0010	0.0012	0.0004	<0.0002	<0.0002	<0.0002
		0937_QC205_191202	Interlab_D	EM1920780	0.0681	<0.0002	0.0703	<0.0002	<0.0002	0.0022	0.0004	0.0024	<0.001	0.0007	0.0010	0.0003	<0.0002	<0.0002	<0.0002
		0937_SD259_191202	Normal	EM1920780	0.0930	<0.0002	0.0966	<0.0002	<0.0002	0.0036	0.0006	0.0031	<0.001	0.0009	0.0012	0.0004	<0.0002	<0.0002	<0.0002
	18 Mar 2020	0937_SD259_20200318	Normal	EM2004711	0.0543	0.0003	0.0569	<0.0002	<0.0002	0.0026	0.0005	0.0007	<0.001	0.0007	0.0007	0.0003	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD259_200615	Normal	EM2010514	0.0587	<0.0002	0.0611	<0.0002	<0.0002	0.0024	0.0003	0.0032	<0.001	0.0004	0.0009	0.0004	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD259_201109	Normal	EM2020050	0.0791	<0.0002	0.0817	<0.0002	<0.0002	0.0026	0.0004	0.0013	<0.001	<0.0002	0.0004	0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD259_210129	Normal	EM2101229	0.0495	<0.0002	0.0517	<0.0002	<0.0002	0.0022	0.0002	0.0019	<0.001	0.0005	0.0009	0.0003	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_ SD259 _20210420	Normal	EM2107085	0.0688	<0.0002	0.0721	0.0003	0.0002	0.0033	0.0004	0.0028	<0.001	0.0004	0.0008	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD259_210805	Normal	EM2115476	0.0202	<0.0002	0.0216	<0.0002	<0.0002	0.0014	<0.0002	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD259_211118	Normal	EM2123080	0.0152	<0.0002	0.0162	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_QC120_220221	Field_D	EM2203247	0.0515	0.0002	0.0559	0.0003	0.0002	0.0044	0.0005	0.0011	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC220_220221	Interlab_D	866689	0.068	<0.005	0.068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD259_220221	Normal	EM2203247	0.0326	<0.0002	0.0356	<0.0002	<0.0002	0.003	0.0004	0.0006	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	30 May 2022	0937_SD259_220530	Normal	EM2210316	0.0531	<0.0002	0.0571	<0.0002	0.0002	0.0040	0.0007	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD259_220823	Normal	EM2216476	0.0116	<0.0002	0.0119	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD259_221123	Normal	EM2223510	0.0584	0.0004	0.0636	<0.0002	0.0002	0.0052	0.0008	0.0009	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_QC112_231116	Field_D	EM2320952	0.0334	<0.0002	0.0356	<0.0002	<0.0002	0.0022	<0.0002	0.0014	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC212_231116	Interlab_D	1048259	0.076	<0.005	0.076	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD259_231116	Normal	EM2320952	0.0683	<0.0002	0.0710	<0.0002	<0.0002	0.0027	0.0003	0.0051	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD260	13 Oct 2016	QCA310	Field_D	EM1612198	0.0422	0.0004	0.0481	0.0005	0.0002	0.0059	0.0009	0.0003	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
		QCB311	Field_D	EM1612198	0.0432	0.0005	0.0494	0.0004	0.0002	0.0062	0.0011	0.002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
		SD260	Normal	EM1612198	0.0643	0.0006	0.0735	0.0008	0.0003	0.0092	0.002	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2019	0937_SD260_191122	Normal	EM1920034	0.226	0.0002	0.234	0.0003	0.0002	0.0079	0.0020	0.0058	<0.001	0.0005	0.0020	0.0004	<0.0002	<0.0002	<0.0002
	18 Mar 2020	0937_SD260_20200318	Normal	EM2004711	0.141	<0.0002	0.145	<0.0002	<0.0002	0.0038	0.0006	0.0060	<0.001	0.0003	0.0010	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD260_20200615	Normal	EM2010514	0.101	0.0003	0.106	0.0003	0.0003	0.0046	0.0008	0.0064	<0.001	0.0005	0.0011	0.0002	<0.0002	<0.0002	<0.0002
	09 Nov 2020	0937_SD260_200911	Normal	EM2020050	0.0601	0.0003	0.0632	<0.0002	0.0002	0.0031	0.0005	0.0008	<0.001	0.0002	0.0005	0.0003	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD260_210129	Normal	EM2101229	0.0634	0.0002	0.0676	0.0002	0.0003	0.0042	0.0004	0.0038	<0.001	0.0011	0.0014	0.0005	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_ SD260_20210420	Normal	EM2107085	0.0355	<0.0002	0.0373	<0.0002	<0.0002	0.0018	0.0002	0.0016	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD260_210805	Normal	EM2115476	0.0026	<0.0002	0.0032	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD260_211118	Normal	EM2123080	0.0135	<0.0002	0.0147	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD260_220221	Normal	EM2203247	0.0819	0.0003	0.0883	0.0003	0.0003	0.0064	0.0007	0.0011	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	31 May 2022	0937_SD260_220530	Normal	EM2210316	0.0836	0.0005	0.0925	0.0004	0.0004	0.0089	0.0012	0.0008	<0.001	0.0003	0.0007	0.0003	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD260_220902	Normal	EM2217000	0.0139	<0.0002	0.0148	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD260_221123	Normal	EM2223510	0.0304	0.0002	0.0335	<0.0002	<0.0002	0.0031	0.0003	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD260_231116	Normal	EM2320952	0.0762	0.0006	0.0838	0.0004	0.0005	0.0076	0.0011	0.0017	<0.001	0.0005	0.0010	0.0006	<0.0002	<0.0002	<0.0002
SD268	13 May 2016	SD002	Normal	EM1605449	0.0049	<0.0005	0.0052	<0.0002	<0.0005	0.0003	<0.001	<0.0002	<0.001	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Jun 2016	OSD002	Normal	EM1606490	0.31	0.0008	0.3203	<0.0002	<0.0002	0.0103	0.0016	0.0026	<0.001	<0.0002	0.0002	0.0002	<0.0002	<0.0002	<0.0002
		QCA122	Field_D	EM1606490	0.424	0.0006	0.4308	<0.0002	<0.0002	0.0068	0.0018	0.0023	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Oct 2016	OSD002	Normal	EM1612984	0.18	0.0012	0.187	<0.0002	<0.0002	0.0071	0.0026	0.006	<0.001	<0.0002	0.0011	0.0002	<0.0002	<0.0002	<0.0002
							0.1871												
	28 Nov 2019	0937_SD02_191128	Normal	EM1920529-AC	0.17	0.0007	0.184	0.0004	0.0006	0.0145	0.0015	0.0031	<0.001	0.0002	0.0017	0.0003	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD002_20200623	Normal	EM2010693	0.0525	<0.0002	0.0555	<0.0002	<0.0002	0.0030	0.0004	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD268_201112	Normal	EM2020041	0.159	0.0004	0.166	<0.0002	0.0005	0.0067	0.0011	0.0008	<0.001	0.0003	0.0034	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD268_210202	Normal	EM2101558	0.0392	<0.0002	0.0411	<0.0002	<0.0002	0.0019	<0.0002	0.0021	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD268_20210429	Normal	EM2107856	0.293	0.0010	0.308	0.0004	0.0006	0.0154	0.0041	0.0061	<0.001	0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD268_210805	Normal	EM2115478	0.766	0.0013	0.798	0.0017	0.0033	0.0322	0.0037	0.0046	<0.002	0.0007	0.0041	0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_QC102_211111	Field_D	EM2123001	1.04	0.0006	1.05	0.0002	0.0005	0.0124	0.0036	0.0220	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC202_211111	Interlab_D	847843	2.5	<0.005	2.529	<0.005	<0.005	0.029	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD268_211111	Normal	EM2123001	1.17	0.0007	1.18	<0.0002	0.0005	0.0148	0.0040	0.0230	<0.001	0.0002	0.0006	<0.0002	0.0002	0.0003	<0.0002
	23 Feb 2022	0937_SD268_220223	Normal	EM2203197	0.264	0.0016	0.295	0.0018	0.0022	0.0313	0.0034	0.0072	<0.002	0.0025	0.0029	0.0008	<0.0004	<0.0004	<0.0004
	28 May 2022	0937_SD268_220528	Normal	EM2210255	0.598	0.0008	0.607	0.0006	0.0005	0.0086	0.0020	0.0064	<0.002	<0.0004	0.0010	<0.0004	<0.0004	<0.0004	<0.0004
	01 Sep 2022	0937_SD268_220901	Normal	EM2216994-AD	1.97	0.0021	2.01	0.0021	0.0037	0.0379	0.0088	0.022	<0.001	0.0009	0.0039	0.0005	0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD268_231123	Normal	EM2320912	1.60	0.0049	1.62	0.0003	0.0004	0.0162	0.0186	0.0025	<0.001	0.0003	0.0013	0.0004	<0.0002	<0.0002	<0.0002

Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD270	**26 Oct 2016**	**OSD004**	**Normal**	**EM1612984**	0.302	0.0041	0.3268	0.0003	<0.0002	0.0248	<0.0002	<0.0002	<0.001	0.0008	0.0057	0.0011	<0.0002	<0.0002	<0.0002
							0.327												
	28 Nov 2019	**0937_SD04_191128**	**Normal**	**EM1920529-AC**	0.282	0.0009	0.288	0.0003	<0.0002	0.006	0.0019	0.0072	<0.001	0.0003	0.0018	0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	**0937_SD004_20200319**	**Normal**	**EM2004707**	0.458	0.0036	0.495	<0.0010	<0.0010	0.0366	0.0054	0.0071	<0.001	<0.0010	0.0024	<0.0010	<0.0010	<0.0010	<0.0010
	23 Jun 2020	**0937_SD004_200623**	**Normal**	**EM2010693**	0.381	0.0011	0.390	0.0007	0.0007	0.0092	0.0036	<0.0002	<0.001	0.0004	0.0016	0.0003	<0.0002	<0.0002	<0.0002
	12 Nov 2020	**0937_SD270_201112**	**Normal**	**EM2020041**	0.0678	0.0008	0.0713	<0.0004	<0.0002	0.0035	0.0027	0.0011	<0.001	<0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0004
	02 Feb 2021	**0937_SD270_210202**	**Normal**	**EM2101558**	0.0307	<0.0002	0.0319	<0.0002	<0.0002	0.0012	<0.0002	0.0007	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	**0937_SD270_20210429**	**Normal**	**EM2107856**	0.228	0.0025	0.263	0.0008	0.0012	0.0348	0.0065	0.0025	<0.001	0.0005	0.0025	0.0006	<0.0002	<0.0002	<0.0002
	05 Aug 2021	**0937_SD270_210805**	**Normal**	**EM2115478**	0.752	<0.0004	0.763	<0.0004	0.0005	0.0112	0.0017	0.0101	<0.002	<0.0004	0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	**0937_QC101_211111**	**Field_D**	**EM2123001**	0.361	<0.0002	0.364	<0.0002	<0.0002	0.0030	0.0008	0.0108	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC201_211111	**Interlab_D**	**847843**	1.3	<0.005	1.3095	<0.005	<0.005	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
		0937_SD270_211111	**Normal**	**EM2123001**	0.520	<0.0002	0.524	<0.0002	<0.0002	0.0040	0.0011	0.0150	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	**0937_SD270_220223**	**Normal**	**EM2203197**	0.0318	0.0002	0.0329	<0.0002	<0.0002	0.0011	0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	28 May 2022	**0937_SD270_220528**	**Normal**	**EM2210255**	0.364	0.0009	0.373	<0.0003	<0.0003	0.0088	0.0032	0.0012	<0.002	<0.0003	0.0005	<0.0003	<0.0003	<0.0003	<0.0003
	01 Sep 2022	**0937_SD270_220901**	**Normal**	**EM2216994-AD**	0.148	<0.0002	0.156	0.0003	0.0005	0.008	0.0009	0.0028	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	**0937_SD270_231123**	**Normal**	**EM2320912**	0.629	0.0025	0.640	0.0006	0.0006	0.0109	0.0082	0.0068	<0.001	0.0002	0.0012	0.0004	<0.0002	<0.0002	<0.0002
SD276	**26 Oct 2016**	**OSD010**	**Normal**	**EM1612993**	0.0538	0.0003	0.0595	<0.0002	<0.0002	0.0057	<0.0002	<0.0002	<0.001	<0.0002	0.0016	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	**0937_SD276_20200319**	**Normal**	**EM2004706**	0.294	0.0012	0.305	<0.0010	<0.0010	0.0112	0.0035	<0.0010	<0.001	<0.0010	0.0017	<0.0010	<0.0010	<0.0010	<0.0010
	18 Jun 2020	**0937_SD276_200618**	**Normal**	**EM2010381**	0.0364	0.0009	0.0477	<0.0002	0.0004	0.0113	0.0013	<0.0002	<0.001	0.0004	0.0042	0.0006	<0.0002	<0.0002	<0.0002
	12 Nov 2020	**0937_SD276_201112**	**Normal**	**EM2020047**	0.760	0.0018	0.767	<0.0002	<0.0002	0.0069	0.0050	0.0013	<0.001	<0.0002	0.0012	0.0003	<0.0002	<0.0002	<0.0002
	02 Feb 2021	**0937_SD276_210202**	**Normal**	**EM2101562**	0.0282	<0.0002	0.0312	<0.0002	<0.0002	0.0030	0.0003	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	**0937_SD276_20210429**	**Normal**	**EM2107855**	0.0768	<0.0002	0.0801	<0.0002	<0.0002	0.0033	0.0006	0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002
	04 Aug 2021	**0937_SD276_210804**	**Normal**	**EM2115483**	0.656	0.0017	0.679	<0.0004	0.0009	0.0227	0.0041	0.0019	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	**0937_SD276_211110**	**Normal**	**EM2123004**	0.0753	<0.0002	0.0773	<0.0002	<0.0002	0.0020	0.0004	0.0011	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	**0937_SD276_220222**	**Normal**	**EM2203194**	0.204	<0.0004	0.206	<0.0004	<0.0004	0.0024	0.0012	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	**0937_SD276_220527**	**Normal**	**EM2210252**	0.238	<0.0003	0.242	<0.0003	<0.0003	0.0040	0.0012	0.0005	<0.002	<0.0003	0.0005	<0.0003	<0.0003	<0.0003	<0.0003
	31 Aug 2022	**0937_QC117_220831**	**Field_D**	**EM2216996**	0.637	0.0012	0.662	0.0009	0.0040	0.0245	0.0038	0.0059	<0.001	0.0009	0.0039	0.0002	<0.0002	<0.0002	<0.0002
		0937_QC217_220831	**Interlab_D**	**922406**	0.12	<0.005	0.153	<0.005	<0.005	0.033	<0.005	<0.005	<0.005	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005
		0937_SD276_220831	**Normal**	**EM2216996**	0.259	0.0008	0.274	0.0006	0.0012	0.0147	0.0019	0.0010	<0.001	0.0005	0.0031	0.0004	<0.0002	<0.0002	<0.0002
	21 Nov 2023	**0937_SD276_231121**	**Normal**	**EM2320910**	0.0245	0.0004	0.0255	<0.0002	<0.0002	0.0010	0.0003	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD001	01 Jun 2016	OSD001	Normal	EM1606490	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0479
	26 Oct 2016	OSD001	Normal	EM1612997	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	03 Dec 2019	0937_SD001_191203	Normal	EM1920790	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.116
	20 Mar 2020	0937_SD001_20200320	Normal	EM2004707	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0673
	23 Jun 2020	0937_SD001_20200623	Normal	EM2010693	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0232
	13 Nov 2020	0937_SD001_201113	Normal	EM2020041	<0.0005	<0.0005	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0697
	04 Feb 2021	0937_SD001_210204	Normal	EM2101558	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0255	<0.0005	<0.0005	0.136
	29 Apr 2021	0937_SD001_20210429	Normal	EM2107856	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0555
	06 Aug 2021	0937_SD001_210806	Normal	EM2115478	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0487
	24 Feb 2022	0937_SD001_220224	Normal	EM2203197	<0.0004	<0.0004	<0.001	<0.0004	<0.001	<0.001	<0.001	<0.001	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0795
	29 May 2022	0937_QC215_220529	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.081
		0937_SD001_220529	Normal	EM2210255	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0613
	31 May 2022	0937_QC115_220529	Field_D	EM2210255	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0735
	01 Sep 2022	0937_SD001_220901	Normal	EM2216994-AD	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0638
	21 Nov 2023	0937_SD001_231121	Normal	EM2320912	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0146
SD011	26 Oct 2016	OSD011	Normal	EM1612993	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Mar 2020	0937_SD011_20200325	Normal	EM2005034	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0128
	22 Jun 2020	0937_SD011_20200622	Normal	EM2010690	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0264
	13 Nov 2020	0937_SD011_201113	Normal	EM2020047	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0722
	02 Feb 2021	0937_SD011_210202	Normal	EM2101562	<0.0002	<0.0002	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.0953	<0.0005	<0.0005	0.104
	30 Apr 2021	0937_SD011_20210430	Normal	EM2107855	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0486
	06 Aug 2021	0937_SD011_210806	Normal	EM2115483	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0290
	10 Nov 2021	0937_SD011_211110	Normal	EM2123004	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0368
	23 Feb 2022	0937_SD011_220223	Normal	EM2203194	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0230
	27 May 2022	0937_SD011_220527	Normal	EM2210252	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0098
	22 Nov 2023	0937_SD011_231122	Normal	EM2320910	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0212
SD014	26 Oct 2016	OSD014	Normal	EM1612993	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Mar 2020	0937_SD014_20200325	Normal	EM2005034	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0635
	22 Jun 2020	0937_SD014_20200623	Normal	EM2010690	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0611
	13 Nov 2020	0937_SD014_201113	Normal	EM2020047	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0166
	02 Feb 2021	0937_SD014_210202	Normal	EM2101562	<0.0002	<0.0002	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.101	<0.0005	<0.0005	0.104
	30 Apr 2021	0937_SD014_20210430	Normal	EM2107855	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0081
	06 Aug 2021	0937_SD014_210806	Normal	EM2115483	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0944
	10 Nov 2021	0937_SD014_211110	Normal	EM2123004	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0156
	23 Feb 2022	0937_SD014_220223	Normal	EM2203194	<0.0003	<0.0003	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.0143
	27 May 2022	0937_SD014_220527	Normal	EM2210252	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0191
	22 Nov 2023	0937_SD014_231122	Normal	EM2320910	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0659
SD015	26 Oct 2016	OSD015	Normal	EM1612993	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Mar 2020	0937_SD015_20200325	Normal	EM2005034	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0095
	22 Jun 2020	0937_SD015_20200623	Normal	EM2010690	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0054
	13 Nov 2020	0937_SD015_201113	Normal	EM2020047	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0142
	02 Feb 2021	0937_SD015_210203	Normal	EM2101562	<0.0002	<0.0002	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.0945	<0.0005	<0.0005	0.103
	30 Apr 2021	0937_SD015_20210430	Normal	EM2107855	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0137
	23 Feb 2022	0937_SD015_220223	Normal	EM2203194	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0131
	27 May 2022	0937_SD015_220527	Normal	EM2210252	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0052
	22 Nov 2023	0937_SD015_231122	Normal	EM2320910	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0141

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD016	26 Oct 2016	OSD016	Normal	EM1612993	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
		QCA407	Field_D	EM1612868	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
		QCB408	Interlab_D	521935	<0.005	<0.005	<0.005	<0.01	<0.01		<0.01				<0.005	<0.01	<0.005		
	25 Mar 2020	0937_SD016_20200325	Normal	EM2005034	<0.0002	<0.0002	<0.0006	0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.652
	22 Jun 2020	0937_SD016_20200622	Normal	EM2010690	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0555
	13 Nov 2020	0937_SD016_201113	Normal	EM2020047	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0305
	02 Feb 2021	0937_SD016_210202	Normal	EM2101562	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0437
	30 Apr 2021	0937_SD016_20210430	Normal	EM2107855	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0749
	22 Nov 2023	0937_SD016_231122	Normal	EM2320910	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.104
SD019	28 Oct 2016	OSD019	Normal	EM1612987	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	06 Dec 2016	OSD019	Normal	EM1614830	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0067
	16 Mar 2020	0937_SD019_20200316	Normal	EM2004774	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040
	18 Jun 2020	0937_SD019_200618	Normal	EM2010385	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0085
	12 Nov 2020	0937_SD019_201112	Normal	EM2020045	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0017
	03 Feb 2021	0937_SD019_210203	Normal	EM2101568	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0056
	21 Apr 2021	0937_SD019_20210421	Normal	EM2107090	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0139
	04 Aug 2021	0937_SD019_210804	Normal	EM2115485	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0089
	11 Nov 2021	0937_SD019_211111	Normal	EM2123008	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0087
	22 Feb 2022	0937_SD019_220222	Normal	EM2203193	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0080
	29 May 2022	0937_SD019_220529	Normal	EM2210260	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0020
	30 Aug 2022	0937_SD019_220830	Normal	EM2216989	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0143
	30 Nov 2022	0937_SD019_221130	Normal	EM2223922	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0081
	21 Nov 2023	0937_SD019_231121	Normal	EM2320917	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0009
SD030	26 Oct 2016	OSD030	Normal	EM1612981	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.103
	04 Dec 2019	0937_SD030_191204	Normal	EM1920788	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0469
	19 Mar 2020	0937_SD030_20200319	Normal	EM2004716	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.353
	19 Jun 2020	0937_QC110_200619	Field_D	EM2010383	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0160
		0937_QC210_200619	Interlab_D	726765	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD030_200619	Normal	EM2010383	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0207
	12 Nov 2020	0937_SD030_201112	Normal	EM2020042	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.226
	02 Feb 2021	0937_SD030_210202	Normal	EM2101566	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.235
	29 Apr 2021	0937_SD030_20210428	Normal	EM2107807	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0361
	05 Aug 2021	0937_SD030_210805	Normal	EM2115482	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.972
	11 Nov 2021	0937_SD030_211111	Normal	EM2123005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.101
	23 Feb 2022	0937_SD030_220223	Normal	EM2203198	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.166
	29 May 2022	0937_SD030_220529	Normal	EM2210257	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0676
	02 Sep 2022	0937_SD030_220902	Normal	EM2216993	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.154
	30 Nov 2022	0937_SD030_221130	Normal	EM2223928	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.241

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD031	26 Oct 2016	OSD031	Normal	EM1612982	0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	28 Nov 2019	0937_SD031_191128	Normal	EM1920529	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0008
	20 Mar 2020	0937_SD031_20200320	Normal	EM2004718	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0036
	23 Jun 2020	0937_QC111_200623	Field_D	EM2010696	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0011
		0937_SD031_200623	Normal	EM2010696	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0013
		O973_QC211_200623	Interlab_D	727519	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
	13 Nov 2020	0937_SD031_201113	Normal	EM2020044	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0009
	02 Feb 2021	0937_SD031_210202	Normal	EM2101565	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0205	<0.0005	<0.0005	0.0299
	29 Apr 2021	0937_SD031_20210429	Normal	EM2107809	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0120
	23 Nov 2023	0937_SD031_231123	Normal	EM2320915	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0032
SD032	26 Oct 2016	OSD032	Normal	EM1612982	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	28 Nov 2019	0937_SD032_191128	Normal	EM1920529	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0117
	20 Mar 2020	0937_SD032_20200320	Normal	EM2004718	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0421
	23 Jun 2020	0937_SD032_200623	Normal	EM2010696	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0397
	13 Nov 2020	0937_SD032_201113	Normal	EM2020044	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0111
	02 Feb 2021	0937_SD032_210202	Normal	EM2101565	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0184
	04 May 2021	0937_SD032_20210504	Normal	EM2108092	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0036
	06 Aug 2021	0937_SD032_210806	Normal	EM2115477	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0298
	18 Nov 2021	0937_SD032_211118	Normal	EM2123007	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002
	24 Feb 2022	0937_SD032_220224	Normal	EM2203200	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0165
	31 May 2022	0937_SD032_220531	Normal	EM2210258	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0119
	01 Sep 2022	0937_SD032_220901	Normal	EM2216991	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.182
	30 Nov 2022	0937_SD032_221130	Normal	EM2223921	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002
	23 Nov 2023	0937_SD032_231123	Normal	EM2320915	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040
SD033	27 Oct 2016	OSD033	Normal	EM1613005	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	0.0006	<0.0005	
	03 Dec 2019	0937_SD033_191203	Normal	EM1920790	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0050
	19 Mar 2020	0937_QC103_20200319	Field_D	EM2004707	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0267
		0937_QC203_20200319	Interlab_D	711148	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.063
		0937_SD033_20200319	Normal	EM2004707	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0243
	19 Jun 2020	0937_QC108_20200619	Field_D	EM2010382	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0950
		0937_QC208_200619	Interlab_D	726765	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD033_20200619	Normal	EM2010382	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0863
	12 Nov 2020	0937_SD033_201112	Normal	EM2020041	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	0.0020	<0.0005	<0.0005	0.0786
	04 Feb 2021	0937_SD033_210204	Normal	EM2101558	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0567
	29 Apr 2021	0937_ SD033 _29210429	Normal	EM2107858	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0456
	05 Aug 2021	0937_SD033_210805	Normal	EM2115478	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0227
	11 Nov 2021	0937_QC106_211111	Field_D	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0404
		0937_QC206_211111	Interlab_D	847843	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD033_211111	Normal	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0126
	23 Feb 2022	0937_SD033_220223	Normal	EM2203197	<0.0003	<0.0003	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	0.0006	<0.0005	<0.0005	0.106
	31 May 2022	0937_SD033_220528	Normal	EM2210255	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0272
	01 Sep 2022	0937_QC118_220901	Field_D	EM2216994-AD	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0445
		0937_QC218_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0679
		0937_SD033_220901	Normal	EM2216994-AD	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0449
	21 Nov 2023	0937_SD033_231121	Normal	EM2320912	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0450

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD034	26 Oct 2016	OSD034	Normal	EM1612997	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
		QCA415	Field_D	EM1612868	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
		QCB416	Interlab_D	521935	<0.005	<0.005	<0.005	<0.01	<0.01		<0.01				<0.005	<0.01	<0.005		
	28 Nov 2019	0937_SD034_191128	Normal	EM1920529-AC	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.434
	20 Mar 2020	0937_SD034_20200320	Normal	EM2004707	<0.0005	<0.0005	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.113
	18 Jun 2020	0937_SD034_20200618	Normal	EM2010382	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.936
	13 Nov 2020	0937_SD034_201113	Normal	EM2020041	<0.0003	<0.0003	<0.0009	0.0005	<0.0009	<0.0009	<0.0009	<0.0009	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.889
	02 Feb 2021	0937_SD034_210202	Normal	EM2101558	<0.0004	<0.0004	<0.0011	0.0007	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.709
	29 Apr 2021	0937_SD034_20210429	Normal	EM2107856	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.312
	06 Aug 2021	0937_SD034_210806	Normal	EM2115478	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0291
	17 Nov 2021	0937_SD034_211117	Normal	EM2123001	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.771
	24 Feb 2022	0937_SD034_220224	Normal	EM2203197	<0.0004	<0.0004	<0.001	<0.0004	<0.001	<0.001	<0.001	<0.001	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.357
	31 May 2022	0937_SD034_220534	Normal	EM2210255	<0.0004	<0.0004	<0.0009	0.0006	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.345
	01 Sep 2022	0937_SD034_220901	Normal	EM2216994-AD	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0846
	21 Nov 2023	0937_SD034_231121	Normal	EM2320912	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0270
SD035	26 Oct 2016	OSD035	Normal	EM1612997	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	26 Mar 2020	0937_SD035_20200326	Normal	EM2005031	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0367
	23 Jun 2020	0937_SD035_20200623	Normal	EM2010693	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0415
	13 Nov 2020	0937_SD035_201113	Normal	EM2020041	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0750
	04 Feb 2021	0937_SD035_210204	Normal	EM2101558	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.153
	29 Apr 2021	0937_SD035_20210429	Normal	EM2107856	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0886
	24 Feb 2022	0937_SD035_220224	Normal	EM2203197	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0747
	29 May 2022	0937_QC216_220529	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.093
		0937_SD035_220529	Normal	EM2210255	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0391
	31 May 2022	0937_QC116_220529	Field_D	EM2210255	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0765
	21 Nov 2023	0937_SD035_231121	Normal	EM2320912	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.108
SD041	26 Oct 2016	OSD041	Normal	EM1612997	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	28 Nov 2019	0937_SD041_191128	Normal	EM1920529-AC	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.127
	20 Mar 2020	0937_SD041_20200320	Normal	EM2004707	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.514
	18 Jun 2020	0937_SD041_20200618	Normal	EM2010382	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.379
	13 Nov 2020	0937_SD041_201113	Normal	EM2020041	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0078
	02 Feb 2021	0937_SD041_210202	Normal	EM2101558	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0464
	29 Apr 2021	0937_SD041_20210429	Normal	EM2107856	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.223
	06 Aug 2021	0937_SD041_210806	Normal	EM2115478	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.180
	11 Nov 2021	0937_SD041_211111	Normal	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.126
	24 Feb 2022	0937_SD041_220224	Normal	EM2203197	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.422
	28 May 2022	0937_SD041_220528	Normal	EM2210255	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0514
	31 Aug 2022	0937_SD041_220831	Normal	EM2216994-AD	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.137
	21 Nov 2023	0937_SD041_231121	Normal	EM2320912	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0328

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD049	27 Oct 2016	OSD049	Normal	EM1613003	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	03 Dec 2019	0937_SD049_191203	Normal	EM1920780	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0015
	19 Mar 2020	0937_SD049_	Normal	EM2004719	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0020
	18 Jun 2020	0937_SD049_20200618	Normal	EM2010386	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0064
	12 Nov 2020	0937_SD049_201112	Normal	EM2020046	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040
	01 Feb 2021	0937_SD049_210201	Normal	EM2101559	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0373	<0.0005	<0.0005	0.0404
	21 Apr 2021	0937_SD049_20210421	Normal	EM2107088	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0037
	06 Aug 2021	0937_SD049_210806	Normal	EM2115480	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0036
	17 Nov 2021	0937_QC219_211117	Interlab_D	842318	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
	18 Nov 2021	0937_QC119_211118	Field_D	EM2123002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0236
		0937_SD049_211118	Normal	EM2123002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0236
	22 Feb 2022	0937_SD049_220222	Normal	EM2203201	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0074
	31 May 2022	0937_SD049_220531	Normal	EM2210259	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0052
	29 Aug 2022	0937_SD049_220829	Normal	EM2216987	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0193
	01 Dec 2022	0937_SD049_221201	Normal	EM2223923	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0614
	23 Nov 2023	0937_SD049_231123	Normal	EM2320918	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002
SD052	26 Oct 2016	OSD052	Normal	EM1612985	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	04 Dec 2019	0937_SD052_191204	Normal	EM1920785	<0.0002	<0.0002	<0.0005	0.0024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	2.48
	19 Mar 2020	0937_SD052_20200319	Normal	EM2004717	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.685
	23 Jun 2020	0937_SD052_200623	Normal	EM2010691	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.686
	12 Nov 2020	0937_SD052_201112	Normal	EM2020043	<0.0002	<0.0002	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.404
	04 Feb 2021	0937_SD052_210204	Normal	EM2101564	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0827	<0.0005	<0.0005	0.181
	29 Apr 2021	0937_SD052_20210429	Normal	EM2107806	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0649
	05 Aug 2021	0937_SD052_210805	Normal	EM2115484	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.39
	11 Nov 2021	0937_SD052_211111	Normal	EM2123006	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.356
	23 Feb 2022	0937_SD052_220223	Normal	EM2203199	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.280
	28 May 2022	0937_SD052_220528	Normal	EM2210256	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.233
	01 Sep 2022	0937_SD052_220901	Normal	EM2216992	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.842
	21 Nov 2023	0937_SD052_231121	Normal	EM2320914	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.252
SD082	25 Mar 2020	0937_SD082_20200325	Normal	EM2005034	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0049
	22 Jun 2020	0937_SD082_200623	Normal	EM2010690	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0161
	13 Nov 2020	0937_SD082_201113	Normal	EM2020047	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0080
	02 Feb 2021	0937_SD082_210202	Normal	EM2101562	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0217	<0.0005	<0.0005	0.0400
	30 Apr 2021	0937_SD082_20210430	Normal	EM2107855	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0037
	06 Aug 2021	0937_SD082_210806	Normal	EM2115483	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0194
	11 Nov 2021	0937_SD082_211111	Normal	EM2123004	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0023
	23 Feb 2022	0937_SD082_220223	Normal	EM2203194	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0054
	27 May 2022	0937_SD082_220527	Normal	EM2210252	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0063
	31 Aug 2022	0937_QC114_220831	Field_D	EM2216996	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0035
		0937_QC214_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD082_220831	Normal	EM2216996	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0047
	22 Nov 2023	0937_SD082_231122	Normal	EM2320910	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0024

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD088	**19 Mar 2020**	**0937_SD088_20200319**	**Normal**	**EM2004706**	<0.0005	<0.0005	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.347
	18 Jun 2020	**0937_SD088_20200618**	**Normal**	**EM2010381**	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.513
	12 Nov 2020	**0937_SD088_201112**	**Normal**	**EM2020047**	<0.0005	<0.0005	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.584
	02 Feb 2021	**0937_SD088_210202**	**Normal**	**EM2101562**	<0.0002	<0.0002	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.103	<0.0005	<0.0005	0.121
	29 Apr 2021	**0937_SD088_20210429**	**Normal**	**EM2107855**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.167
	05 Aug 2021	**0937_SD088_210805**	**Normal**	**EM2115483**	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0006	<0.0005	<0.0005	0.0303
	11 Nov 2021	**0937_SD088_211111**	**Normal**	**EM2123004**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.442
	22 Feb 2022	**0937_SD088_2220222**	**Normal**	**EM2203194**	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.299
	29 May 2022	**0937_SD088_220529**	**Normal**	**EM2210252**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.111
	31 Aug 2022	**0937_QC115_220831**	**Field_D**	**EM2216996**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0862
		0937_QC215_220831	**Interlab_D**	**922406**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1368
		0937_SD088_220831	**Normal**	**EM2216996**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.192
	21 Nov 2023	**0937_SD088_231121**	**Normal**	**EM2320910**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0179
SD089	**25 Mar 2020**	**0937_SD089_20200326**	**Normal**	**EM2005034**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.105
	22 Jun 2020	**0937_SD089_20200623**	**Normal**	**EM2010690**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0623
	13 Nov 2020	**0937_SD089_201113**	**Normal**	**EM2020047**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.158
	02 Feb 2021	**0937_SD089_210202**	**Normal**	**EM2101562**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0244	<0.0005	<0.0005	0.0802
	30 Apr 2021	**0937_SD089_20210430**	**Normal**	**EM2107855**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.332
	04 Aug 2021	**0937_SD089_210804**	**Normal**	**EM2115483**	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.132
	10 Nov 2021	**0937_SD089_211110**	**Normal**	**EM2123004**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0048
	22 Feb 2022	**0937_SD089_220222**	**Normal**	**EM2203194**	<0.0003	<0.0003	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.150
	27 May 2022	**0937_SD089_220527**	**Normal**	**EM2210252**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0141
	31 Aug 2022	**0937_QC116_220831**	**Field_D**	**EM2216996**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0080
		0937_QC216_220831	**Interlab_D**	**922406**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD089_220831	**Normal**	**EM2216996**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0130
	21 Nov 2023	**0937_SD089_231121**	**Normal**	**EM2320910**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0165
SD201	**13 Oct 2016**	**SD201**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	26 Nov 2019	**0937_SD201_191126**	**Normal**	**EM1920529**	<0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.231
	17 Mar 2020	**0937_SD201_20200317**	**Normal**	**EM2004711**	<0.0005	<0.0005	<0.0012	0.0006	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.267
	16 Jun 2020	**0937_SD201_200616**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0287
	10 Nov 2020	**0937_SD201_201110**	**Normal**	**EM2020050**	<0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.220
	28 Jan 2021	**0937_QC103_210128**	**Field_D**	**EM2101229**	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.303
		0937_QC203_210128	**Interlab_D**	**770470**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.347
		0937_SD201_210128	**Normal**	**EM2101229**	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.561
	22 Apr 2021	**0937_ SD201 _20210422**	**Normal**	**EM2107085**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0181
	13 Jul 2021	**0937_SD201_210713**	**Normal**	**EM2113872-AB**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0603
	15 Nov 2021	**0937_SD201_211109**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.189
	18 Feb 2022	**0937_SD201_220218**	**Normal**	**EM2202703**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.209
	24 May 2022	**0937_SD201_2205**	**Normal**	**EM2210316**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0540
	23 Aug 2022	**0937_SD201_220823**	**Normal**	**EM2216476**	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.296
	22 Nov 2022	**0937_SD201_221122**	**Normal**	**EM2223510**	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.209
	16 Nov 2023	**0937_SD201_231116**	**Normal**	**EM2320952**	<0.0002	<0.0002	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.193

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD206	13 Oct 2016	SD206	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	17 Mar 2020	0937_SD206_20200317	Normal	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0334
	16 Jun 2020	0937_SD206_20200616	Normal	EM2010514	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0469
	28 Jan 2021	0937_SD206_210128	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0016
	26 Apr 2021	0937_ SD206 _20210426	Normal	EM2107858	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0053
	13 Jul 2021	0937_SD206_210713	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0062
SD208	14 Oct 2016	SD208	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	0.0014	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	21 Nov 2019	0937_QC100_191121	Field_D	EM1920039	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0045
		0937_QC200_191121	Interlab_D	690346	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.079
		0937_SD208_191121	Normal	EM1920039	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0026
	17 Mar 2020	0937_SD208_20200317	Normal	EM2004711	<0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	0.0199
	15 Jun 2020	0937_SD208_200615	Normal	EM2010514	<0.0002	<0.0002	<0.0005	0.0061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0867
	10 Nov 2020	0937_SD208_201110	Normal	EM2020050	<0.0004	<0.0004	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0163
	28 Jan 2021	0937_SD208_210128	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0043
	28 Apr 2021	0937_ SD208_20210428	Normal	EM2107858	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0035
	13 Jul 2021	0937_SD208_210713	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0227
	12 Nov 2021	0937_SD208_211112	Normal	EM2123080	<0.0004	<0.0004	<0.0010	0.0006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0480
	16 Feb 2022	0937_SD208_220216	Normal	EM2202703	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.0083
	25 May 2022	0937_QC105_220525	Field_D	EM2210316	0.0004	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0106	<0.0005	<0.0005	0.371
		0937_QC205_220525	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	0.012	<0.005	<0.005	0.3421
		0937_SD208_220525	Normal	EM2210316	0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0082	<0.0005	<0.0005	0.286
	23 Aug 2022	0937_SD208_220823	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0022	<0.0005	<0.0005	0.0050
	29 Nov 2022	0937_SD208_221124	Normal	EM2223972	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0087	<0.0005	<0.0005	0.0175
SD209	20 Nov 2019	0937_SD209_191120	Normal	EM1920039	0.0060	<0.0050	<0.0125	0.218	<0.0125	<0.0125	<0.0125	<0.0125	<0.0050	<0.0050	<0.0050	0.0050	<0.0050	<0.0050	22.9
	17 Mar 2020	0937_SD209_20200317	Normal	EM2004711	0.0008	<0.0005	<0.0012	0.121	<0.0012	<0.0012	<0.0012	<0.0012	0.0005	<0.0005	<0.0005	0.0026	0.0038	0.0007	3.17
	16 Jun 2020	0937_SD209_200616	Normal	EM2010514	0.0035	<0.0010	0.0040	0.979	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	0.0095	0.0025	0.0023	14.0
	10 Nov 2020	0937_SD209_201110	Normal	EM2020050	0.0005	0.0002	<0.0005	0.0141	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0018	0.0005	<0.0005	0.478
	28 Jan 2021	0937_SD209_210128	Normal	EM2101229	0.0009	0.0002	<0.0006	0.0244	<0.0006	0.0007	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.0022	<0.0005	<0.0005	0.904
	22 Apr 2021	0937_ SD209 _20210422	Normal	EM2107085	0.0020	0.0006	<0.0009	0.0547	<0.0009	0.0018	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0011	<0.0005	<0.0005	0.991
	13 Jul 2021	0937_SD209_210713	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	0.131
	15 Nov 2021	0937_SD209_211115	Normal	EM2123080	0.0021	0.0005	<0.0005	0.0520	<0.0005	0.0013	<0.0005	<0.0005	<0.0002	0.0003	<0.0005	0.0018	0.0015	<0.0005	1.23
	22 Feb 2022	0937_SD209_220222	Normal	EM2203247	0.0057	0.0018	0.0024	0.0956	<0.001	<0.001	<0.001	<0.001	<0.0004	0.0007	<0.0005	0.0011	0.0042	0.0006	2.17
	17 Nov 2023	0937_SD209_231117	Normal	EM2320952	0.0009	0.0003	<0.0005	0.0399	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	1.22
SD216	20 Oct 2016	SD216	Normal	EM1612570	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	0937_SD216_191125	Normal	EM1920529	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0352
	15 Jun 2020	0937_SD216_200615	Normal	EM2010514	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.107
	10 Nov 2020	0937_QC103_201110	Field_D	EM2020050	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0283
		0937_QC203_201110	Interlab_D	757178	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD216_201110	Normal	EM2020050	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0256
	28 Jan 2021	0937_SD216_210128	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.157

Table B2c - Sediment Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD217	**14 Oct 2016**	**SD217**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	0.0103	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	19 Mar 2020	**0937_SD217_20200319**	**Normal**	**EM2004711**	<0.0005	<0.0005	<0.0012	0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.586
	16 Jun 2020	**0937_SD217_200616**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.348
	10 Nov 2020	**0937_SD217_201110**	**Normal**	**EM2020050**	0.0005	<0.0002	<0.0005	0.0092	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.09
	29 Jan 2021	**0937_SD217_210129**	**Normal**	**EM2101229**	0.0005	<0.0002	<0.0005	0.0268	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.757
	27 Apr 2021	**0937_ SD217_20210427**	**Normal**	**EM2107858**	0.0002	<0.0002	<0.0005	0.0074	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.686
	15 Jul 2021	**0937_SD217_210715**	**Normal**	**EM2113872-AB**	0.0003	<0.0002	<0.0005	0.0060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.788
	16 Nov 2021	**0937_SD217_211116**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.226
	15 Feb 2022	**0937_SD217_220215**	**Normal**	**EM2202703**	0.0003	<0.0002	<0.0005	0.0068	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.618
	31 May 2022	**0937_SD217_220530**	**Normal**	**EM2210316**	0.0003	<0.0002	<0.0005	0.0063	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.921
	26 Aug 2022	**0937_SD217_220826**	**Normal**	**EM2216476**	<0.0002	<0.0002	<0.0005	0.0040	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.606
	24 Nov 2022	**0937_SD217_221124**	**Normal**	**EM2223510**	0.0002	<0.0002	<0.0005	0.0086	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.720
	17 Nov 2023	**0937_SD217_231117**	**Normal**	**EM2320952**	0.0004	<0.0002	<0.0005	0.0163	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.19
SD223	**12 Oct 2016**	**SD223**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	29 Nov 2019	**0937_SD223_191129**	**Normal**	**EM1920529**	<0.0002	<0.0002	<0.0005	0.0018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0430
	20 Mar 2020	**0937_SD223_20200317**	**Normal**	**EM2004711**	<0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	0.0268
	16 Jun 2020	**0937_SD223_20200617**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0023	<0.0005	<0.0005	0.0376
	10 Nov 2020	**0937_QC106_201110**	**Field_D**	**EM2020050**	<0.0005	<0.0005	<0.0012	0.0017	<0.0012	<0.0012	<0.0012	0.0018	<0.0005	<0.0005	<0.0005	0.0018	<0.0005	<0.0005	0.0701
		0937_QC206_201110	**Interlab_D**	**757178**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD223_201110	**Normal**	**EM2020050**	<0.0005	<0.0005	<0.0012	0.0011	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	0.0462
	28 Jan 2021	**0937_SD223_210128**	**Normal**	**EM2101229**	<0.0004	<0.0004	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0085
	28 Apr 2021	**0937_ SD223_20210428**	**Normal**	**EM2107858**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0107
	13 Jul 2021	**0937_QC207_210713**	**Interlab_D**	**811260**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.151
	14 Jul 2021	**0937_QC107_210714**	**Field_D**	**EM2113872-AB**	<0.0037	<0.0037	<0.0093	<0.0037	<0.0093	<0.0093	<0.0093	<0.0093	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.0514
	15 Jul 2021	**0937_SD223_210715**	**Normal**	**EM2113872-AB**	<0.0035	<0.0035	<0.0086	<0.0035	<0.0086	<0.0086	<0.0086	<0.0086	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.0511
	15 Nov 2021	**0937_SD223_211115**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0496
	16 Feb 2022	**0937_SD223_220217**	**Normal**	**EM2202703**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0134	<0.0005	<0.0005	0.0493
	25 May 2022	**0937_SD223_220525**	**Normal**	**EM2210316**	<0.0004	0.0007	<0.0009	0.0005	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0419	<0.0005	<0.0005	0.102
	24 Aug 2022	**0937_SD223_220824**	**Normal**	**EM2216476**	0.0002	0.0003	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0568
	16 Nov 2023	**0937_SD223_231116**	**Normal**	**EM2320952**	<0.0004	<0.0004	<0.0009	0.0012	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0398	<0.0005	<0.0005	0.0751
SD226	**13 Oct 2016**	**SD226**	**Normal**	**EM1612198**	0.0008	<0.0002	<0.0005	0.0366	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	**0937_SD226_191125**	**Normal**	**EM1920529**	0.0013	<0.0002	<0.0005	0.0272	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.724
	17 Mar 2020	**0937_SD226_20200317**	**Normal**	**EM2004711**	<0.0005	<0.0005	<0.0012	0.0206	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.840
	16 Jun 2020	**0937_SD226_20200616**	**Normal**	**EM2010514**	0.0007	<0.0002	<0.0005	0.0238	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.472
	10 Nov 2020	**0937_SD226_201110**	**Normal**	**EM2020050**	0.0006	<0.0002	<0.0005	0.0193	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.249
	28 Jan 2021	**0937_SD226_210128**	**Normal**	**EM2101229**	0.0009	<0.0002	<0.0005	0.0180	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.604
	28 Apr 2021	**0937_ SD226_20210428**	**Normal**	**EM2107858**	0.0008	<0.0002	<0.0005	0.0124	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.522
	14 Jul 2021	**0937_SD226_210714**	**Normal**	**EM2113872-AB**	0.0005	<0.0002	<0.0005	0.0096	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.423
	12 Nov 2021	**0937_SD226_2111012**	**Normal**	**EM2123080**	0.0007	<0.0002	<0.0005	0.0117	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.358
	22 Feb 2022	**0937_SD226_220222**	**Normal**	**EM2203247**	0.0007	<0.0002	<0.0005	0.011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.432
	26 May 2022	**0937_SD226_220525**	**Normal**	**EM2210316**	0.0011	<0.0002	<0.0005	0.0151	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.831
	23 Aug 2022	**0937_SD226_220823**	**Normal**	**EM2216476**	0.0006	<0.0002	<0.0005	0.0076	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.493
	23 Nov 2022	**0937_SD226_221123**	**Normal**	**EM2223510**	0.0009	<0.0002	<0.0005	0.0198	0.0006	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.420
	17 Nov 2023	**0937_SD226_231117**	**Normal**	**EM2320952**	0.0007	<0.0002	<0.0005	0.0196	0.0008	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.454

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD227	**14 Oct 2016**	**SD227**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	**0937_SD227_191125**	**Normal**	**EM1920529**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0020
	17 Mar 2020	**0937_SD227_20200317**	**Normal**	**EM2004711**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0022
	16 Jun 2020	**0937_SD227_200616**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0044
	10 Nov 2020	**0937_SD227_201110**	**Normal**	**EM2020050**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0102
	28 Jan 2021	**0937_SD227_210128**	**Normal**	**EM2101229**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0048
	28 Apr 2021	**0937_ SD227_20210428**	**Normal**	**EM2107858**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0072
	14 Jul 2021	**0937_QC112_210714**	**Field_D**	**EM2113872-AB**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0026
		0937_QC212_210714	**Interlab_D**	**811260**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD227_210714	**Normal**	**EM2113872-AB**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040
	16 Nov 2021	**0937_SD227_211116**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0078
	21 Feb 2022	**0937_SD227_220221**	**Normal**	**EM2203247**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0174
	25 May 2022	**0937_QC111_220525**	**Field_D**	**EM2210316**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0038
		0937_QC211_220525	**Interlab_D**	**893740**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD227_220525	**Normal**	**EM2210316**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0049
	24 Aug 2022	**0937_SD227_220824**	**Normal**	**EM2216476**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0113
	24 Nov 2022	**0937_SD227_221124**	**Normal**	**EM2223510**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0037
	16 Nov 2023	**0937_QC116_231116**	**Field_D**	**EM2320952**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0050
		0937_QC216_231116	**Interlab_D**	**1048259**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD227_231116	**Normal**	**EM2320952**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0053
SD230	**13 Oct 2016**	**SD230**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	**0937_SD230_191125**	**Normal**	**EM1920529**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0091
	18 Mar 2020	**0937_SD230_20200318**	**Normal**	**EM2004711**	<0.0002	<0.0002	<0.0005	0.0016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0506
	17 Jun 2020	**0937_SD230_200617**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.128
	11 Nov 2020	**0937_SD230_201111**	**Normal**	**EM2020050**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0250
	01 Feb 2021	**0937_SD230_210201**	**Normal**	**EM2101575**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0286
	30 Apr 2021	**0937_ SD230 _20210427**	**Normal**	**EM2107858**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0143
	15 Jul 2021	**0937_SD230_210715**	**Normal**	**EM2113872-AB**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0408
	12 Nov 2021	**0937_SD230_211112**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0734
	18 Feb 2022	**0937_QC114_220218**	**Field_D**	**EM2202703**	0.0002	<0.0002	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.0848
		0937_QC214_220218	**Interlab_D**	**864735**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0766
		0937_SD230_220218	**Normal**	**EM2202703**	<0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0023	<0.0005	<0.0005	0.078
	30 May 2022	**0937_SD230_220530**	**Normal**	**EM2210316**	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0661
	23 Aug 2022	**0937_SD230_220823**	**Normal**	**EM2216476**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0468
	29 Nov 2022	**0937_SD230_221129**	**Normal**	**EM2223972**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0019	<0.0005	<0.0005	0.0452
	15 Nov 2023	**0937_QC106_231115**	**Field_D**	**EM2320952**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.0217
		0937_QC206_231115	**Interlab_D**	**1048259**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD230_231115	**Normal**	**EM2320952**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0028	<0.0005	<0.0005	0.0203

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD231	13 Oct 2016	SD231	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	26 Nov 2019	0937_SD231_191126	Normal	EM1920529	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0289
	17 Mar 2020	0937_SD231_20200317	Normal	EM2004711	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0847
	16 Jun 2020	0937_SD231_200616	Normal	EM2010514	<0.0002	<0.0002	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.300
	10 Nov 2020	0937_SD231_201110	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.192
	29 Jan 2021	0937_QC108_210129	Field_D	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0803
		0937_QC208_210128	Interlab_D	770470	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.364
		0937_SD231_210129	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0678
	26 Apr 2021	0937_ SD231 _20210426	Normal	EM2107858	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.193
	15 Jul 2021	0937_SD231_210715	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.137
	12 Nov 2021	0937_SD231_211112	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0415
	18 Feb 2022	0937_QC117_220218	Field_D	EM2202703	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.194
		0937_QC217_220218	Interlab_D	864735	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.266
		0937_SD231_220218	Normal	EM2202703	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.168
	26 May 2022	0937_SD231_220526	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0843
	23 Aug 2022	0937_SD231_220823	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0137
	29 Nov 2022	0937_SD231_221128	Normal	EM2223972	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.102
	20 Nov 2023	0937_SD231_231120	Normal	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0728
SD233	13 Oct 2016	SD233	Normal	EM1612198	<0.0002	<0.0002	<0.0006	0.0013	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	26 Nov 2019	0937_SD233_191126	Normal	EM1920529	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0349
	26 Mar 2020	0937_SD233_20209326	Normal	EM2005033	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0795
	16 Jun 2020	0937_SD233_200616	Normal	EM2010514	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0487
	23 Jun 2020	0937_SD233_200623	Normal	EM2010697	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0240
	10 Nov 2020	0937_SD233_201110	Normal	EM2020050	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0759
	28 Jan 2021	0937_SD233_210128	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0449
	26 Apr 2021	0937_ SD233 _20210426	Normal	EM2107858	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0500
	15 Jul 2021	0937_SD233_210715	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0936
	15 Nov 2021	0937_QC111_211115	Field_D	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0571
		0937_QC211_211115	Interlab_D	842318	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.106
		0937_SD233_211115	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0488
	17 Feb 2022	0937_SD233_220216	Normal	EM2202703	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0859
	26 May 2022	0937_SD233_220526	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0397
	25 Aug 2022	0937_SD233_220825	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0312
	24 Nov 2022	0937_SD233_221124	Normal	EM2223510	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.138
	16 Nov 2023	0937_SD233_231116	Normal	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0551

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD239	13 Oct 2016	SD239	Normal	EM1612198	0.0004	<0.0002	<0.0005	0.0182	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0044	<0.0005	<0.0005	<0.0005	<0.0005	
	26 Nov 2019	0937_SD239_191126	Normal	EM1920529	0.0006	0.0003	<0.0005	0.0064	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0162	<0.0005	<0.0005	0.229
	17 Mar 2020	0937_SD239_20200317	Normal	EM2004711	<0.0005	<0.0005	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	0.0017	<0.0005	<0.0005	5.04
	16 Jun 2020	0937_SD239_20200616	Normal	EM2010514	0.0009	0.0011	0.0017	0.0050	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0716	0.0010	<0.0005	0.302
	10 Nov 2020	0937_SD239_201110	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	2.90
	28 Jan 2021	0937_SD239_210128	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0495
	26 Apr 2021	0937_QC104_20210426	Field_D	EM2107858	0.0004	0.0003	<0.0005	0.0028	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.116
		QC204_20210426	Interlab_D	792537	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1073
	30 Apr 2021	0937_ SD239 _20210426	Normal	EM2107858	0.0004	0.0002	<0.0005	0.0032	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.0876
	15 Jul 2021	0937_SD239_210715	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0260
	12 Nov 2021	0937_SD239_211112	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0016	<0.0005	<0.0005	0.638
	17 Feb 2022	0937_SD239_220217	Normal	EM2202703	0.0011	<0.0002	<0.0005	0.006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.007	<0.0005	<0.0005	0.64
	26 May 2022	0937_SD239_220526	Normal	EM2210316	0.0005	0.0002	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.134
	23 Aug 2022	0937_SD239_220823	Normal	EM2216476	0.0006	0.0004	<0.0005	0.0022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.141
	24 Nov 2022	0937_SD239_221124	Normal	EM2223510	0.0007	0.0003	<0.0005	0.0083	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0012	<0.0005	<0.0005	0.196
	17 Nov 2023	0937_SD239_231117	Normal	EM2320952	0.0008	0.0006	<0.0005	0.0078	0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.118
SD242	12 Oct 2016	SD242	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	0937_SD242_191125	Normal	EM1920529	<0.0002	<0.0002	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.361
	17 Mar 2020	0937_SD242_20200317	Normal	EM2004711	<0.0002	<0.0002	<0.0005	0.0018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.330
	16 Jun 2020	0937_SD242_2020061	Normal	EM2010514	<0.0002	<0.0002	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.375
	23 Jun 2020	0937_SD242_200623	Normal	EM2010697	<0.0002	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.495
	10 Nov 2020	0937_SD242_201110	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.425
	28 Jan 2021	0937_SD242_210128	Normal	EM2101229	<0.0002	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.243
	28 Apr 2021	0937_ SD242 _20210428	Normal	EM2107858	<0.0002	<0.0002	<0.0005	0.0018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.596
	14 Jul 2021	0937_QC110_210714	Field_D	EM2113872-AB	<0.0004	<0.0004	<0.0009	0.0011	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.142
		0937_QC210_210714	Interlab_D	811260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.13
		0937_SD242_210714	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.133
	12 Nov 2021	0937_SD242_211112	Normal	EM2123080	<0.0002	<0.0002	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.189
	18 Feb 2022	0937_SD242_220218	Normal	EM2202703	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.2
	25 May 2022	0937_SD242_220525	Normal	EM2210316	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.223
	24 Aug 2022	0937_SD242_220824	Normal	EM2216476	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0782
	23 Nov 2022	0937_SD242_221123	Normal	EM2223510	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.364
	16 Nov 2023	0937_QC111_231116	Field_D	EM2320952	<0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0740
		0937_QC211_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.068
		0937_SD242_231116	Normal	EM2320952	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0574

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD246	12 Oct 2016	SD246	Normal	EM1612198	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	0937_SD246_191125	Normal	EM1920529	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0907
	18 Mar 2020	0937_SD246_20200318	Normal	EM2004711	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0499
	17 Jun 2020	0937_SD246_200617	Normal	EM2010514	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0391
	13 Nov 2020	0937_SD246_201111	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.131
	01 Feb 2021	0937_SD246_210201	Normal	EM2101575	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.118
	27 Apr 2021	0937_QC106_20210427	Field_D	EM2107858	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0674
		0937_SD246_20210427	Normal	EM2107858	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0750
		QC206_20210427	Interlab_D	792537	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1472
	04 Aug 2021	0937_QC124_210804	Field_D	EM2115476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0884
		0937_QC224_210804	Interlab_D	815502	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1033
		0937_SD246_210804	Normal	EM2115476	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0761
	12 Nov 2021	0937_SD246_211112	Normal	EM2123080	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0594
	18 Feb 2022	0937_QC113_220218	Field_D	EM2202703	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0995
		0937_QC213_220218	Interlab_D	864735	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0982
		0937_SD246_220218	Normal	EM2202703	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.112
	30 May 2022	0937_SD246_220530	Normal	EM2210316	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0758
	23 Aug 2022	0937_SD246_220823	Normal	EM2216476	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0926
	29 Nov 2022	0937_SD246_221129	Normal	EM2223972	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0017	<0.0005	<0.0005	0.0899
	15 Nov 2023	0937_SD246_231115	Normal	EM2320952	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0055	<0.0005	<0.0005	0.0977
SD247	13 Oct 2016	SD247	Normal	EM1612198	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	25 Nov 2019	0937_SD247_191125	Normal	EM1920529	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0049
	20 Mar 2020	0937_QC105_20200320	Field_D	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0210
		0937_QC205_20200320	Interlab_D	711148	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD247_20200320	Normal	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0149
	17 Jun 2020	0937_QC104_200617	Field_D	EM2010514	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0047
		0937_QC204_200617	Interlab_D	726765	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD247_200617	Normal	EM2010514	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0076
	09 Nov 2020	0937_SD247_201109	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0123
	27 Jan 2021	0937_SD247_210127	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0033
	20 Apr 2021	0937_ SD247 _20210420	Normal	EM2107085	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0077
	15 Jul 2021	0937_SD247_210715	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0050
	17 Nov 2021	0937_QC117_211117	Field_D	EM2123080	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0565
		0937_QC217_211117	Interlab_D	842318	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD247_211117	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0057
	18 Feb 2022	0937_SD247_220218	Normal	EM2202703	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0017	<0.0005	<0.0005	0.0187
	31 May 2022	0937_SD247_220530	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0039	<0.0005	<0.0005	0.0229
	25 Aug 2022	0937_SD247_220825	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0543
	15 Nov 2023	0937_SD247_231115	Normal	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0032	<0.0005	<0.0005	0.0139

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD249	**13 Oct 2016**	**SD249**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	27 Nov 2019	**0937_SD249_191127**	**Normal**	**EM1920529**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0218
	20 Mar 2020	**0937_SD249_20200320**	**Normal**	**EM2004711**	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0213
	17 Jun 2020	**0937_SD249_20200617**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0043
	12 Nov 2020	**0937_SD249_201112**	**Normal**	**EM2020050**	0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0301
	03 Feb 2021	**0937_SD249_210203**	**Normal**	**EM2101575**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0121
	29 Apr 2021	**0937_SD249_20210429**	**Normal**	**EM2107858**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0106
	15 Jul 2021	**0937_SD249_210715**	**Normal**	**EM2113872-AB**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0154
	17 Nov 2021	**0937_SD249_211117**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0153
	21 Feb 2022	**0937_SD249_220221**	**Normal**	**EM2203247**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.015
	30 May 2022	**0937_SD249_220530**	**Normal**	**EM2210316**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0176
	02 Sep 2022	**0937_SD249_220902**	**Normal**	**EM2217000**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0284
	29 Nov 2022	**0937_SD249_221129**	**Normal**	**EM2223972**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0035	<0.0005	<0.0005	0.0306
	15 Nov 2023	**0937_SD249_231115**	**Normal**	**EM2320952**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0033	<0.0005	<0.0005	0.0301
SD251	**13 Oct 2016**	**SD251**	**Normal**	**EM1612198**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	02 Dec 2019	**0937_QC106_191202**	**Field_D**	**EM1920780**	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0019	<0.0005	<0.0005	0.105
		0937_QC206_191203	**Interlab_D**	**EM1920780**	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0334
		0937_SD251_191202	**Normal**	**EM1920780**	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0480
	20 Mar 2020	**0937_SD251_20200320**	**Normal**	**EM2004711**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0621
	17 Jun 2020	**0937_SD251_200617**	**Normal**	**EM2010514**	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0289
	12 Nov 2020	**0937_SD251_201112**	**Normal**	**EM2020050**	0.0007	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0089	<0.0005	<0.0005	0.149
	29 Jan 2021	**0937_SD251_210129**	**Normal**	**EM2101229**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0139
	20 Apr 2021	**0937_ SD251 _20210420**	**Normal**	**EM2107085**	0.0004	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	0.0863
	05 Aug 2021	**0937_SD251_210805**	**Normal**	**EM2115476**	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0850
	18 Nov 2021	**0937_SD251_211118**	**Normal**	**EM2123080**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0232
	21 Feb 2022	**0937_SD251_220221**	**Normal**	**EM2203247**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0045
	31 May 2022	**0937_SD251_220530**	**Normal**	**EM2210316**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0105
	23 Aug 2022	**0937_SD251_220823**	**Normal**	**EM2216476**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0067
	30 Nov 2022	**0937_SD251_221130**	**Normal**	**EM2223972**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0252
	15 Nov 2023	**0937_SD251_231115**	**Normal**	**EM2320952**	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0441

Table B2c - Sediment Analytical Results

					Perfluorocarbons													
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD256	13 Oct 2016	SD256	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	22 Nov 2019	0937_SD256_191122	Normal	EM1920034	0.0008	0.0002	<0.0005	0.0035	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0468	<0.0005	<0.0005	0.397
	17 Mar 2020	0937_SD256_20200317	Normal	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.42
	16 Jun 2020	0937_SD256_20200616	Normal	EM2010514	0.0008	<0.0002	<0.0005	0.0036	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0042	<0.0005	<0.0005	0.155
	10 Nov 2020	0937_QC205_201110	Interlab_D	757178	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.064
		0937_SD256_201110	Normal	EM2020050	0.0005	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.0508
	28 Jan 2021	0937_SD256_210128	Normal	EM2101229	0.0004	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	0.108
	26 Apr 2021	0937_QC103_20210426	Field_D	EM2107858	0.0006	0.0003	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.156
		0937_ SD256_20210426	Normal	EM2107858	0.0005	<0.0002	<0.0005	0.0016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.123
		QC203_20210426	Interlab_D	792537	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1284
	14 Jul 2021	0937_QC116_210714	Field_D	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0118
		0937_QC216_210714	Interlab_D	811260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05
		0937_SD256_210714	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0158
	12 Nov 2021	0937_SD256_211112	Normal	EM2123080	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0255
	17 Feb 2022	0937_SD256_220217	Normal	EM2202703	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0178
	26 May 2022	0937_SD256_220526	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.230
	24 Aug 2022	0937_SD256_220824	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0696
	28 Nov 2022	0937-QC211-221128	Interlab_D	946451	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0532
	29 Nov 2022	0937_QC111_221128	Field_D	EM2223972	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0415
		0937_SD256_221128	Normal	EM2223972	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0296
	20 Nov 2023	0937_SD256_231120	Normal	EM2320952	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0744
SD257	13 Oct 2016	SD257	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	02 Dec 2019	0937_QC107_191202	Field_D	EM1920780	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.124
		0937_QC207_191202	Interlab_D	EM1920780	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0398
		0937_SD257_191202	Normal	EM1920780	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0519
	17 Mar 2020	0937_SD257_20200317	Normal	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0232
	17 Jun 2020	0937_SD257_20200617	Normal	EM2010514	0.0003	<0.0002	<0.0005	0.0034	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0073	<0.0005	<0.0005	0.230
	11 Nov 2020	0937_SD257_201111	Normal	EM2020050	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0052	<0.0005	<0.0005	0.0360
	29 Jan 2021	0937_SD257_210129	Normal	EM2101229	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0491
	28 Apr 2021	0937_ SD257_20210428	Normal	EM2107858	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0548
	15 Jul 2021	0937_SD257_210715	Normal	EM2113872-AB	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0466
	18 Nov 2021	0937_SD257_211118	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0649
	18 Feb 2022	0937_SD257_220218	Normal	EM2202703	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0691
	23 Aug 2022	0937_SD257_220823	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0161
	20 Nov 2023	0937_SD257_231120	Normal	EM2320952	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0831

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD258	13 Oct 2016	SD258	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	20 Mar 2020	0937_SD258_20200318	Normal	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0379
	15 Jun 2020	0937_SD258_20200615	Normal	EM2010514	0.0005	<0.0002	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.200
	09 Nov 2020	0937_SD258_201109	Normal	EM2020050	0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0530
	29 Jan 2021	0937_QC110_210129	Field_D	EM2101229	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0652
		0937_QC210_210129	Interlab_D	770470	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1062
		0937_SD258_210129	Normal	EM2101229	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0824
	20 Apr 2021	0937_ SD258 _20210420	Normal	EM2107085	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0561
	05 Aug 2021	0937_SD258_210804	Normal	EM2115476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0513
	18 Nov 2021	0937_SD258_211118	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0605
	21 Feb 2022	0937_QC119_220221	Field_D	EM2203247	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.114
		0937_QC219_220221	Interlab_D	866689	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.13
		0937_SD258_220221	Normal	EM2203247	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.121
	30 May 2022	0937_SD258_220530	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0506
	02 Sep 2022	0937_SD258_220902	Normal	EM2217000	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0735
	23 Nov 2022	0937_SD258_221123	Normal	EM2223510	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.117
	16 Nov 2023	0937_QC113_231116	Field_D	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0920
		0937_QC213_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0938
		0937_SD258_231116	Normal	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0293
SD259	13 Oct 2016	SD259	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	02 Dec 2019	0937_QC105_191202	Field_D	EM1920780	0.0002	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	0.0981
		0937_QC205_191202	Interlab_D	EM1920780	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	0.0769
		0937_SD259_191202	Normal	EM1920780	0.0002	<0.0002	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.106
	18 Mar 2020	0937_SD259_20200318	Normal	EM2004711	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0601
	15 Jun 2020	0937_SD259_200615	Normal	EM2010514	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.0682
	13 Nov 2020	0937_SD259_201109	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0843
	29 Jan 2021	0937_SD259_210129	Normal	EM2101229	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0558
	20 Apr 2021	0937_ SD259 _20210420	Normal	EM2107085	0.0003	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0790
	05 Aug 2021	0937_SD259_210805	Normal	EM2115476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0218
	18 Nov 2021	0937_SD259_211118	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0162
	21 Feb 2022	0937_QC120_220221	Field_D	EM2203247	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0589
		0937_QC220_220221	Interlab_D	866689	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.068
		0937_SD259_220221	Normal	EM2203247	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0369
	30 May 2022	0937_SD259_220530	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0592
	23 Aug 2022	0937_SD259_220823	Normal	EM2216476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0119
	23 Nov 2022	0937_SD259_221123	Normal	EM2223510	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0669
	16 Nov 2023	0937_QC112_231116	Field_D	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0373
		0937_QC212_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.076
		0937_SD259_231116	Normal	EM2320952	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0771

Table B2c - Sediment Analytical Results

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD260	13 Oct 2016	QCA310	Field_D	EM1612198	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
		QCB311	Field_D	EM1612198	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
		SD260	Normal	EM1612198	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	22 Nov 2019	0937_SD260_191122	Normal	EM1920034	0.0004	<0.0002	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0082	<0.0005	<0.0005	0.255
	18 Mar 2020	0937_SD260_20200318	Normal	EM2004711	0.0003	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.154
	15 Jun 2020	0937_SD260_20200615	Normal	EM2010514	0.0002	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.120
	09 Nov 2020	0937_SD260_200911	Normal	EM2020050	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0669
	29 Jan 2021	0937_SD260_210129	Normal	EM2101229	0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0762
	20 Apr 2021	0937_ SD260_20210420	Normal	EM2107085	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0397
	05 Aug 2021	0937_SD260_210805	Normal	EM2115476	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0032
	18 Nov 2021	0937_SD260_211118	Normal	EM2123080	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0150
	21 Feb 2022	0937_SD260_220221	Normal	EM2203247	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.092
	31 May 2022	0937_SD260_220530	Normal	EM2210316	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0979
	02 Sep 2022	0937_SD260_220902	Normal	EM2217000	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0150
	23 Nov 2022	0937_SD260_221123	Normal	EM2223510	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0347
	16 Nov 2023	0937_SD260_231116	Normal	EM2320952	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0902
SD268	13 May 2016	SD002	Normal	EM1605449	<0.0002	<0.0002	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.005	<0.001	<0.0002	
	01 Jun 2016	OSD002	Normal	EM1606490	<0.0002	<0.0002	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.328
		QCA122	Field_D	EM1606490	<0.0002	<0.0002	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.438
	26 Oct 2016	OSD002	Normal	EM1612984	<0.0002	<0.0002	<0.0005	0.0066	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.205
	28 Nov 2019	0937_SD02_191128	Normal	EM1920529-AC	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.193
	23 Jun 2020	0937_SD002_20200623	Normal	EM2010693	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0567
	12 Nov 2020	0937_SD268_201112	Normal	EM2020041	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.172
	02 Feb 2021	0937_SD268_210202	Normal	EM2101558	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0434
	29 Apr 2021	0937_SD268_20210429	Normal	EM2107856	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.322
	05 Aug 2021	0937_SD268_210805	Normal	EM2115478	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.818
	11 Nov 2021	0937_QC102_211111	Field_D	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.08
		0937_QC202_211111	Interlab_D	847843	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	2.543
		0937_SD268_211111	Normal	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.21
	23 Feb 2022	0937_SD268_220223	Normal	EM2203197	<0.0004	<0.0004	<0.0011	0.001	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	0.0022	<0.0005	<0.0005	0.321
	28 May 2022	0937_SD268_220528	Normal	EM2210255	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.618
	01 Sep 2022	0937_SD268_220901	Normal	EM2216994-AD	<0.0002	<0.0002	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	2.05
	23 Nov 2023	0937_SD268_231123	Normal	EM2320912	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.64

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Table B2c - Sediment Analytical Results

PFAS Ongoing Monitoring Report (2023)
RAAF Base East Sale
Department of Defence

					Perfluorocarbons														
					Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD270	26 Oct 2016	OSD004	Normal	EM1612984	<0.0002	<0.0002	<0.0006	0.0026	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.341
	28 Nov 2019	0937_SD04_191128	Normal	EM1920529-AC	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.303
	19 Mar 2020	0937_SD004_20200319	Normal	EM2004707	<0.0010	<0.0010	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.513
	23 Jun 2020	0937_SD004_200623	Normal	EM2010693	<0.0002	<0.0002	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.400
	12 Nov 2020	0937_SD270_201112	Normal	EM2020041	<0.0002	<0.0002	<0.0010	<0.0002	<0.0010	<0.0005	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	0.0010	<0.0005	<0.0005	0.0774
	02 Feb 2021	0937_SD270_210202	Normal	EM2101558	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	0.0006	<0.0002	<0.0002	<0.0005	0.0810	<0.0005	<0.0005	0.114
	29 Apr 2021	0937_SD270_20210429	Normal	EM2107856	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	0.281
	05 Aug 2021	0937_SD270_210805	Normal	EM2115478	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.776
	11 Nov 2021	0937_QC101_211111	Field_D	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.376
		0937_QC201_211111	Interlab_D	847843	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	1.3545
		0937_SD270_211111	Normal	EM2123001	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.540
	23 Feb 2022	0937_SD270_220223	Normal	EM2203197	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0337
	28 May 2022	0937_SD270_220528	Normal	EM2210255	<0.0003	<0.0003	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.379
	01 Sep 2022	0937_SD270_220901	Normal	EM2216994-AD	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.161
	23 Nov 2023	0937_SD270_231123	Normal	EM2320912	<0.0002	<0.0002	<0.0005	0.0110	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.0022	<0.0005	<0.0005	<0.0005	<0.0005	0.674
SD276	26 Oct 2016	OSD010	Normal	EM1612993	<0.0002	<0.0002	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	
	19 Mar 2020	0937_SD276_20200319	Normal	EM2004706	<0.0010	<0.0010	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.312
	18 Jun 2020	0937_SD276_200618	Normal	EM2010381	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0555
	12 Nov 2020	0937_SD276_201112	Normal	EM2020047	<0.0002	<0.0002	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.777
	02 Feb 2021	0937_SD276_210202	Normal	EM2101562	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0322
	29 Apr 2021	0937_SD276_20210429	Normal	EM2107855	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0815
	04 Aug 2021	0937_SD276_210804	Normal	EM2115483	<0.0004	<0.0004	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.688
	11 Nov 2021	0937_SD276_211110	Normal	EM2123004	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0791
	22 Feb 2022	0937_SD276_220222	Normal	EM2203194	<0.0004	<0.0004	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.208
	27 May 2022	0937_SD276_220527	Normal	EM2210252	<0.0003	<0.0003	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.244
	31 Aug 2022	0937_QC117_220831	Field_D	EM2216996	<0.0002	<0.0002	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.683
		0937_QC217_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1589
		0937_SD276_220831	Normal	EM2216996	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.283
	21 Nov 2023	0937_SD276_231121	Normal	EM2320910	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0262

APPENDIX

C

MANN-KENDALL OUTPUTS

Cardno

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Stantec

Trend Report

Report Date & Time: 2024-02-09 01:17:32

Data File Name: NW_corner_23_Open_UCL_Input_V1.csv

Report Title: Groundwater Trend Data_NW_Corner_23

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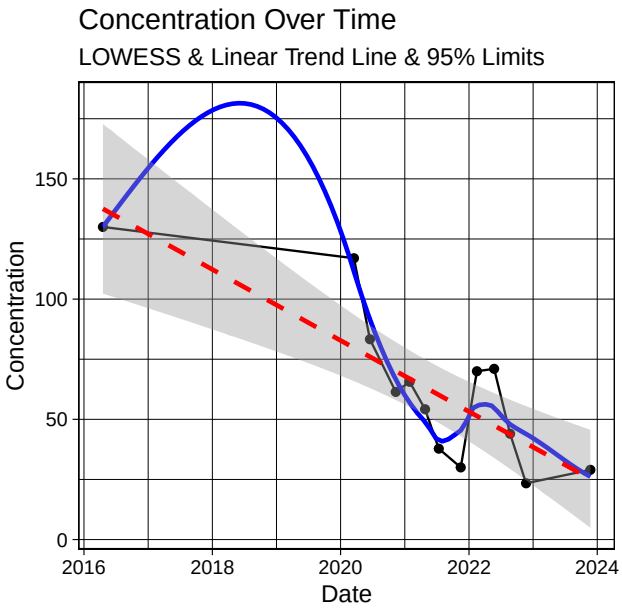
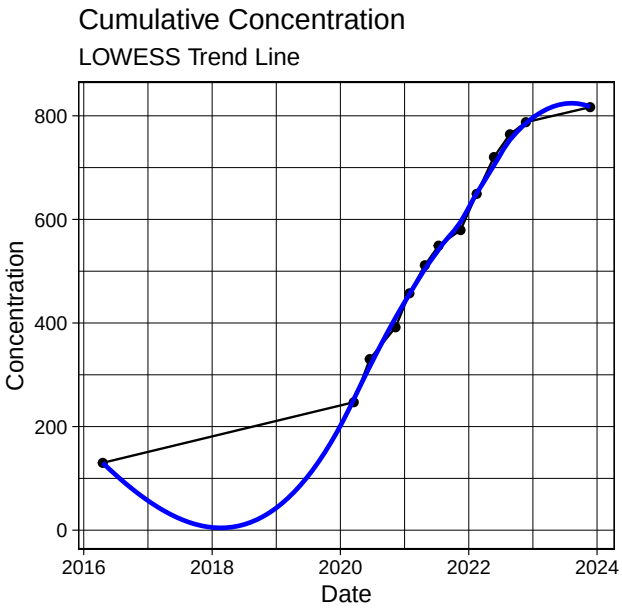
Kendall Trend Test Results Continuous	
n	13
z	-2.87
p	0
S	-48
varS	268.67
tau	-0.62
mean	62.82
sd	32.69
cov	0.52
results	DECREASING

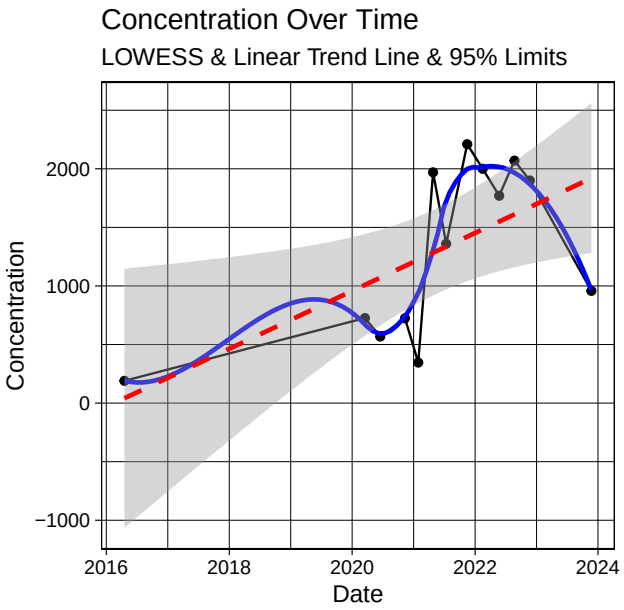
Report for ID : MW306 and Analyte : pfoa

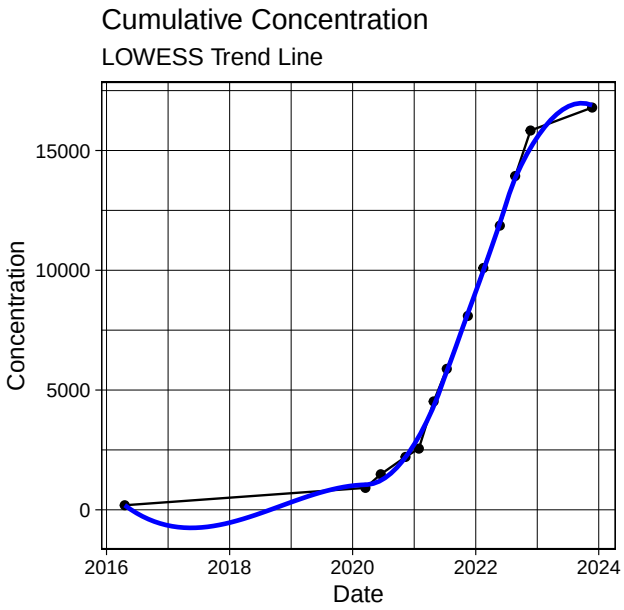




Kendall Trend Test Results Continuous	
n	13
z	2.01
p	0.04
S	34
varS	268.67
tau	0.44
mean	1291.69
sd	730.28
cov	0.57
results	INCREASING

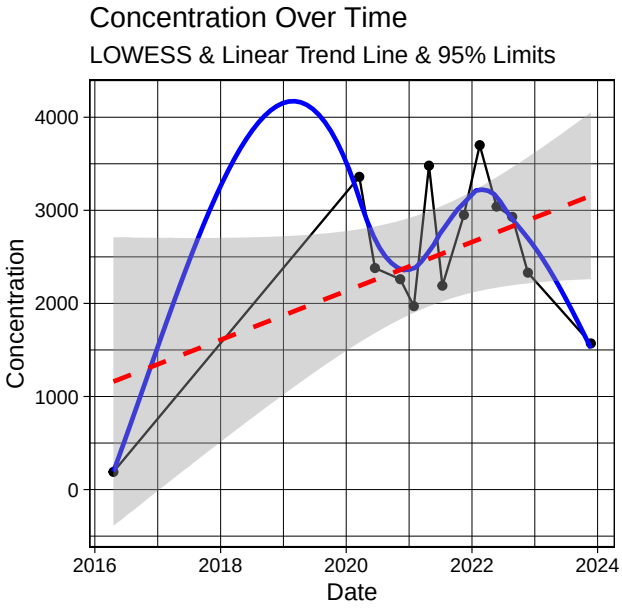
Report for ID : MW306 and Analyte : pfos

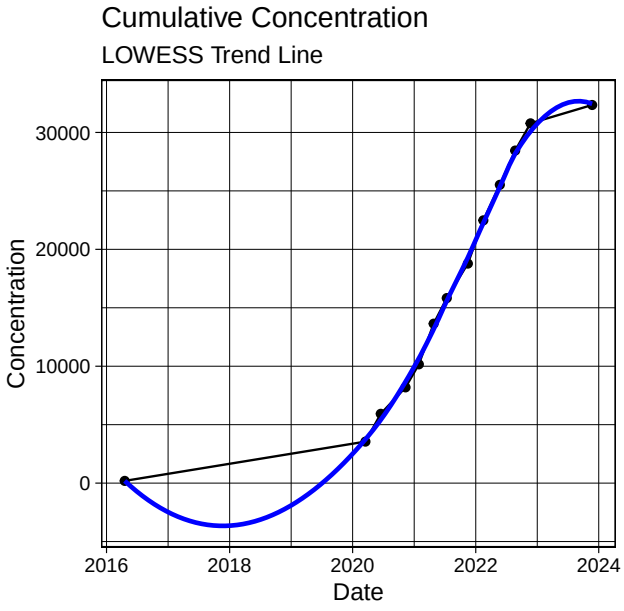




Kendall Trend Test Results Continuous	
n	13
z	0.06
p	0.95
S	2
varS	268.67
tau	0.03
mean	2488.46
sd	935.24
cov	0.38
results	NO CLEAR TREND

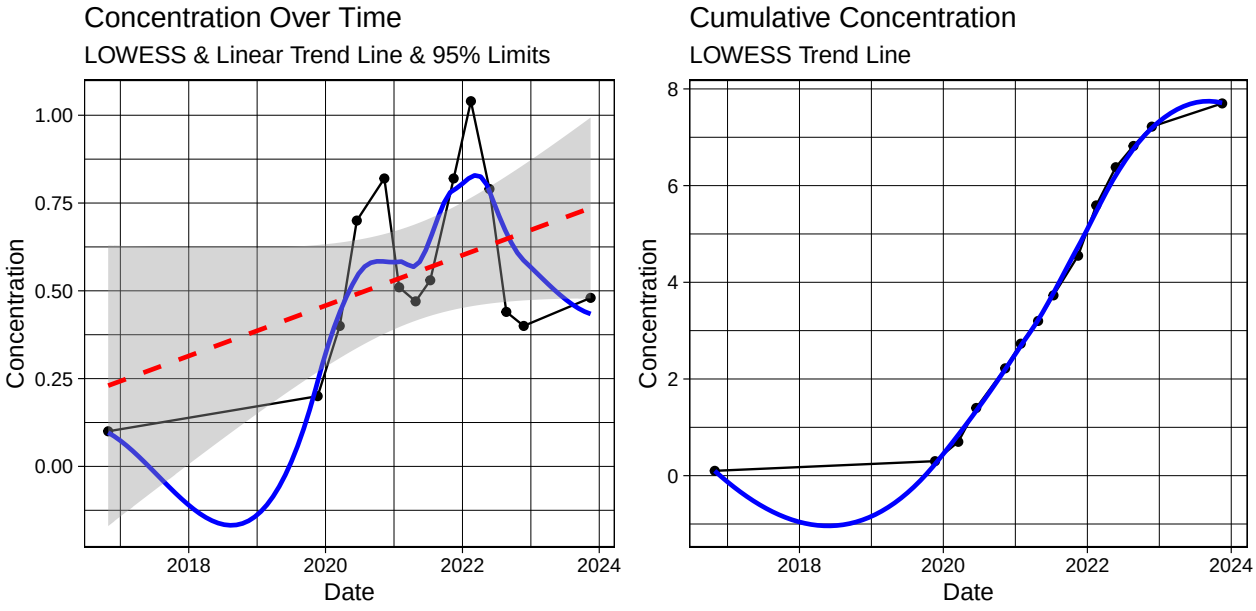
Report for ID : MW306 and Analyte : sum of PFHxS and PFOS





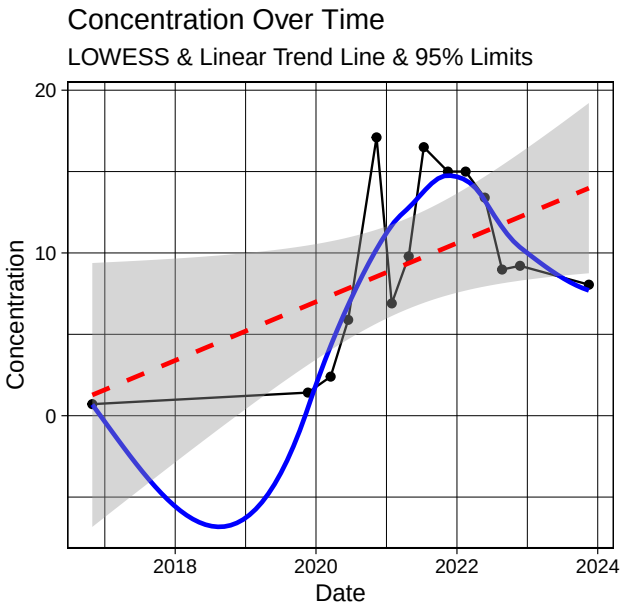
Kendall Trend Test Results Continuous	
n	14
z	1.1
p	0.27
S	21
varS	331.67
tau	0.23
mean	0.55
sd	0.26
cov	0.47
results	NO CLEAR TREND

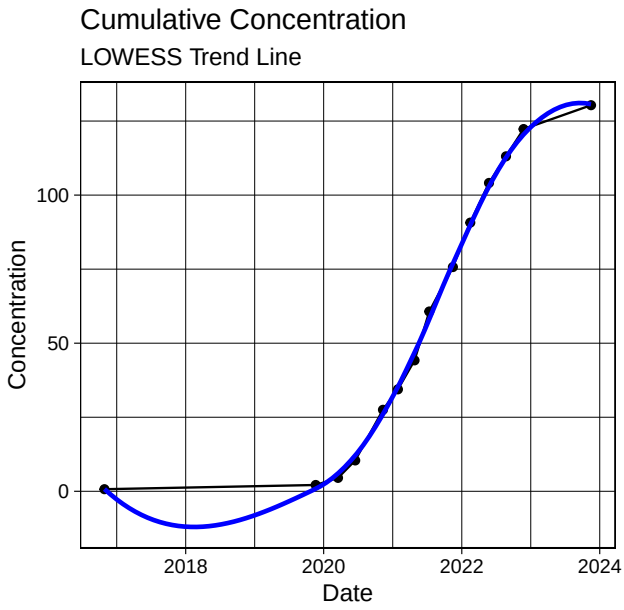
Report for ID : MW326 and Analyte : pfoa



Kendall Trend Test Results Continuous	
n	14
z	1.48
p	0.14
S	28
varS	332.67
tau	0.31
mean	9.31
sd	5.53
cov	0.59
results	NO CLEAR TREND

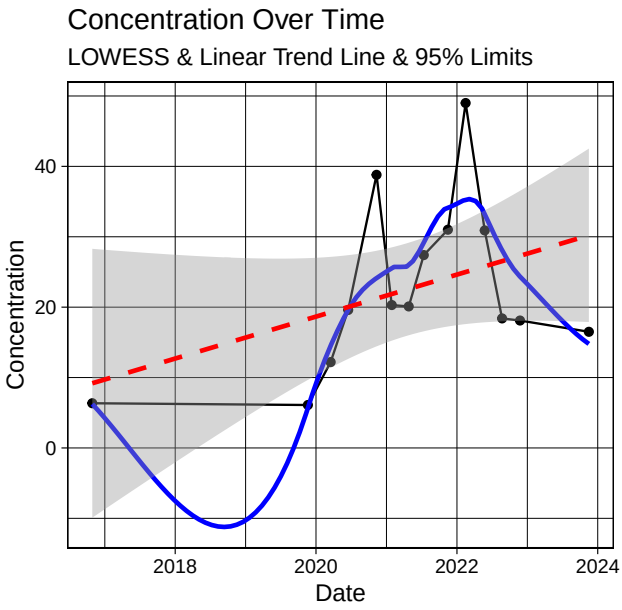
Report for ID : MW326 and Analyte : pfos

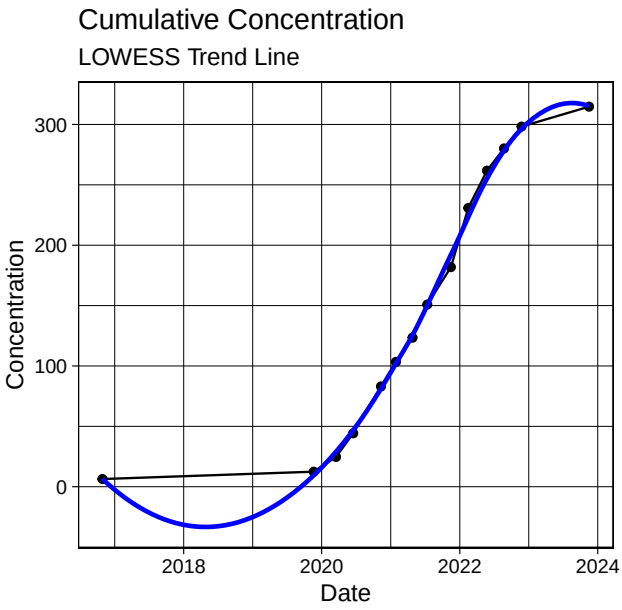




Kendall Trend Test Results Continuous	
n	14
z	0.99
p	0.32
S	19
varS	333.67
tau	0.21
mean	22.48
sd	11.97
cov	0.53
results	NO CLEAR TREND

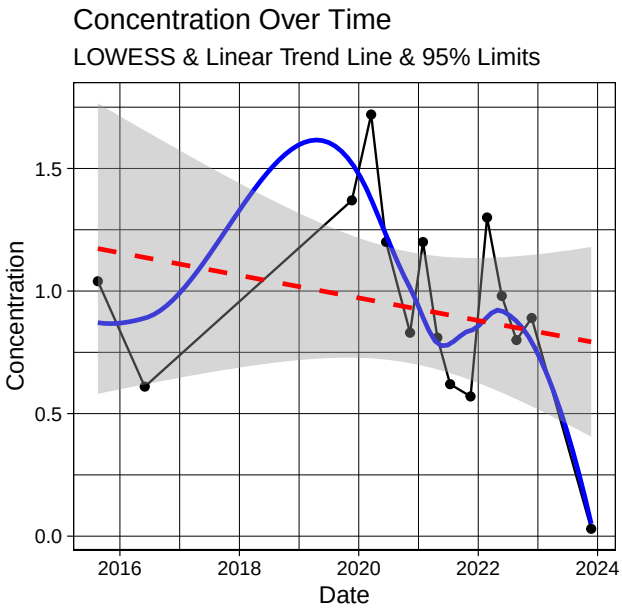
Report for ID : MW326 and Analyte : sum of PFHxS and PFOS

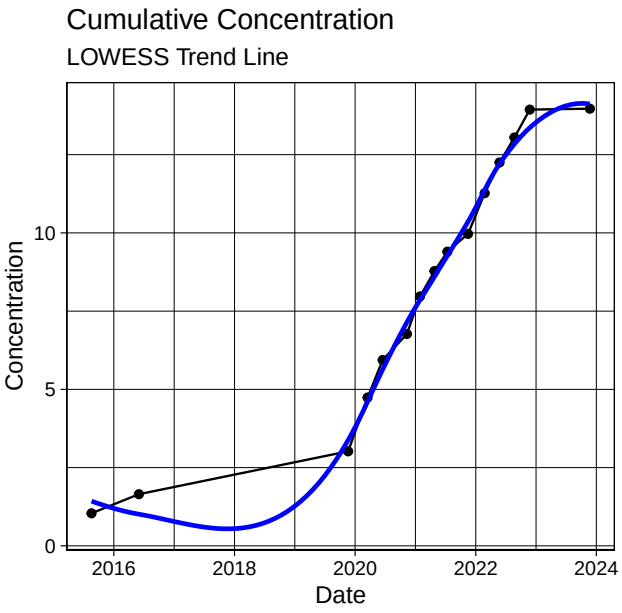




Kendall Trend Test Results Continuous	
n	15
z	-1.64
p	0.1
S	-34
varS	407.33
tau	-0.33
mean	0.93
sd	0.4
cov	0.43
results	STABLE

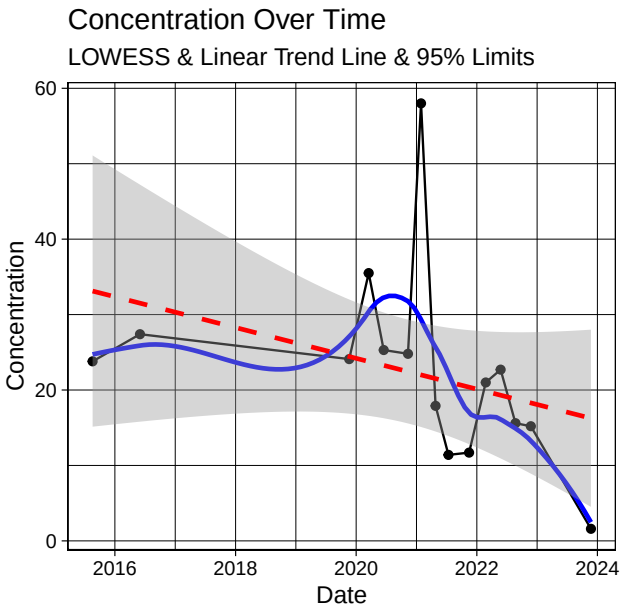
Report for ID : MW607 and Analyte : pfoa

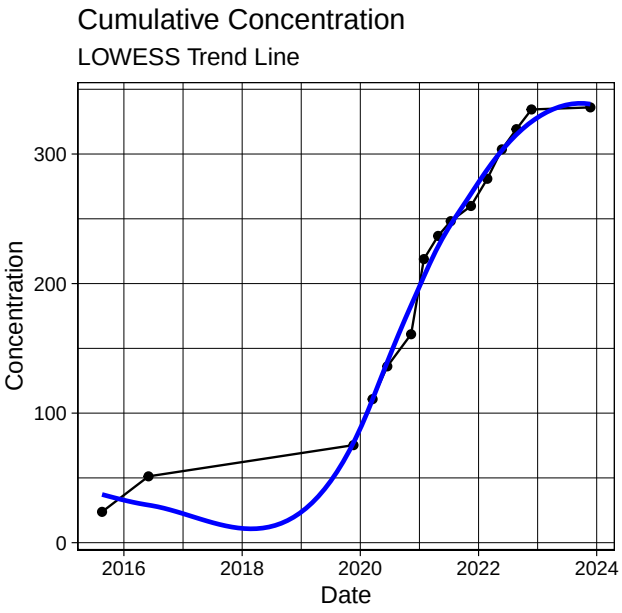




Kendall Trend Test Results Continuous	
n	15
z	-2.47
p	0.01
S	-51
varS	408.33
tau	-0.49
mean	22.4
sd	12.74
cov	0.57
results	DECREASING

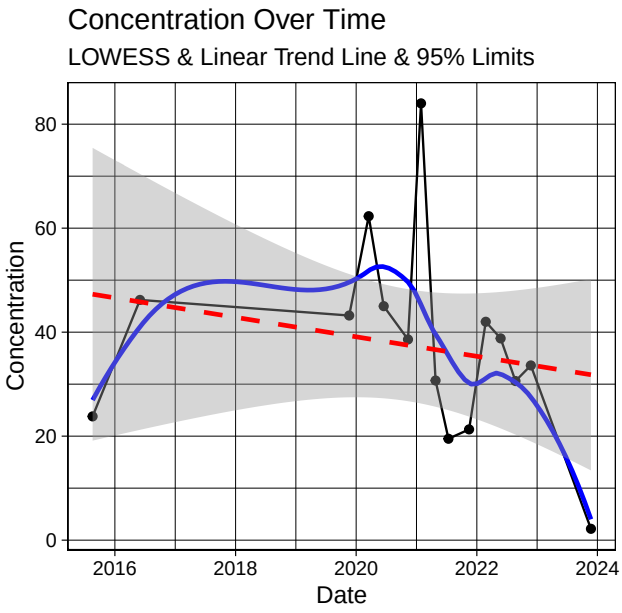
Report for ID : MW607 and Analyte : pfos

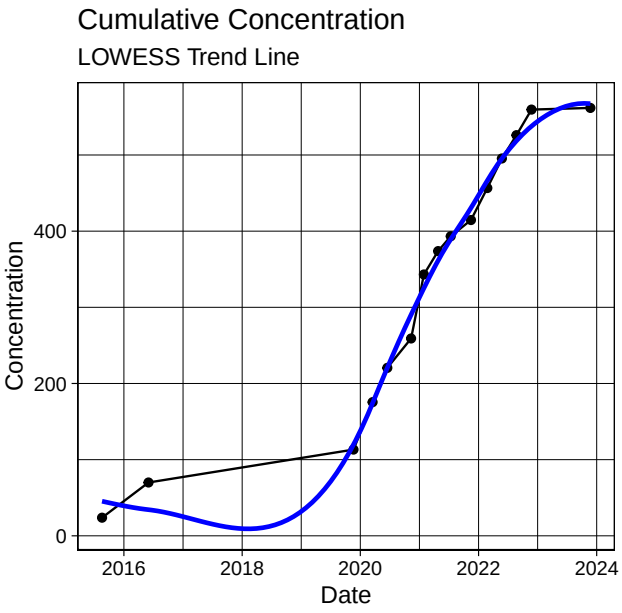




Kendall Trend Test Results Continuous	
n	15
z	-1.78
p	0.07
S	-37
varS	408.33
tau	-0.35
mean	37.45
sd	19.08
cov	0.51
results	POSSIBLY DECREASING

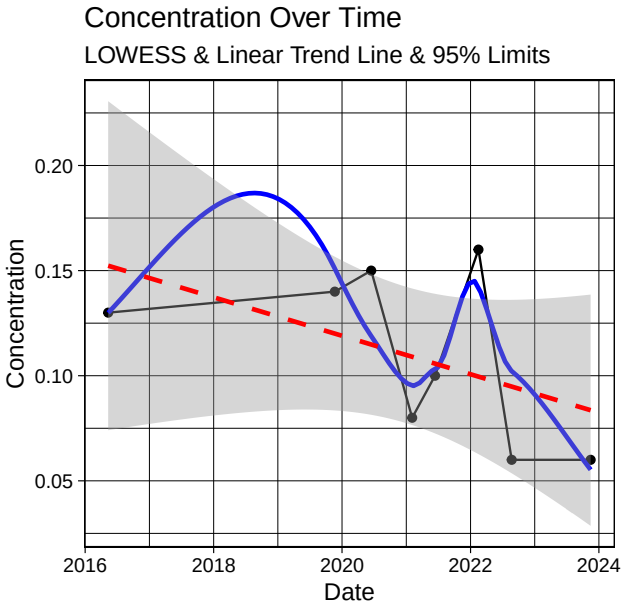
Report for ID : MW607 and Analyte : sum of PFHxS and PFOS

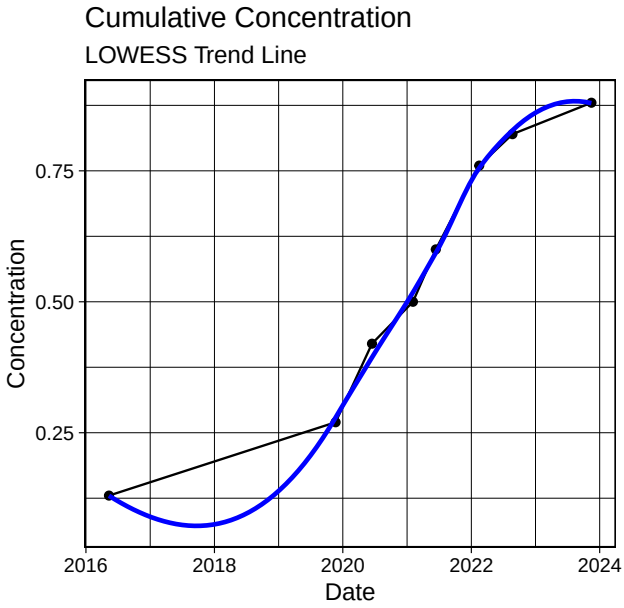




Kendall Trend Test Results Continuous	
n	8
z	-1
p	0.32
S	-9
varS	64.33
tau	-0.33
mean	0.11
sd	0.04
cov	0.37
results	STABLE

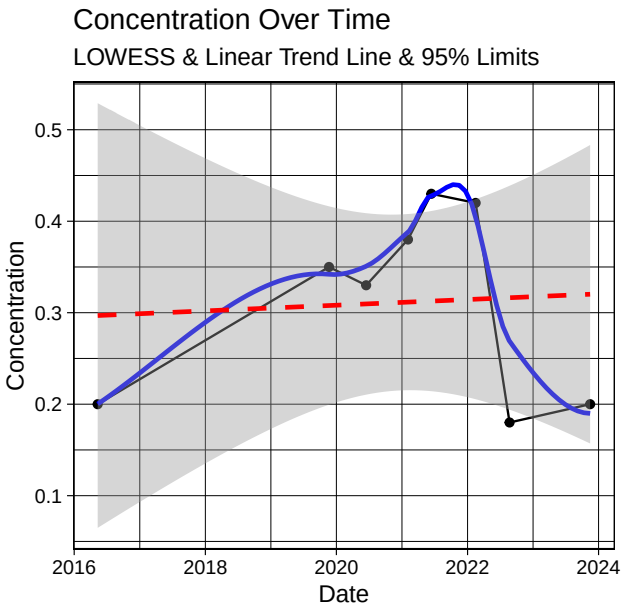
Report for ID : MW609 and Analyte : pfoa

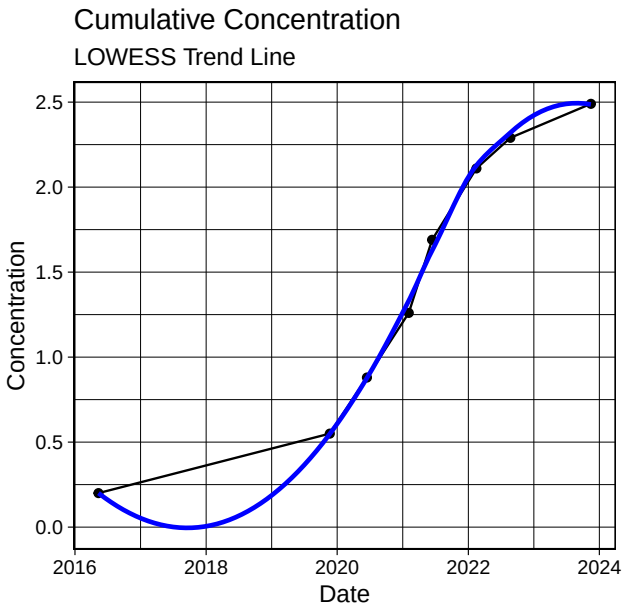




Kendall Trend Test Results Continuous	
n	8
z	0
p	1
S	1
varS	64.33
tau	0.04
mean	0.31
sd	0.1
cov	0.33
results	NO CLEAR TREND

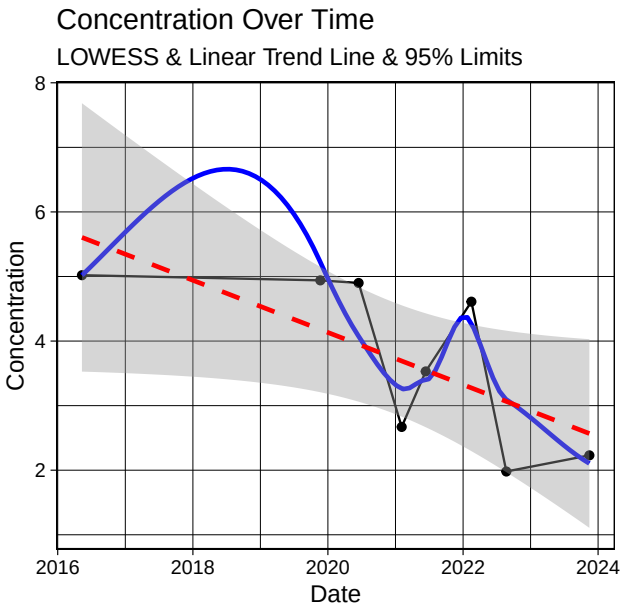
Report for ID : MW609 and Analyte : pfos

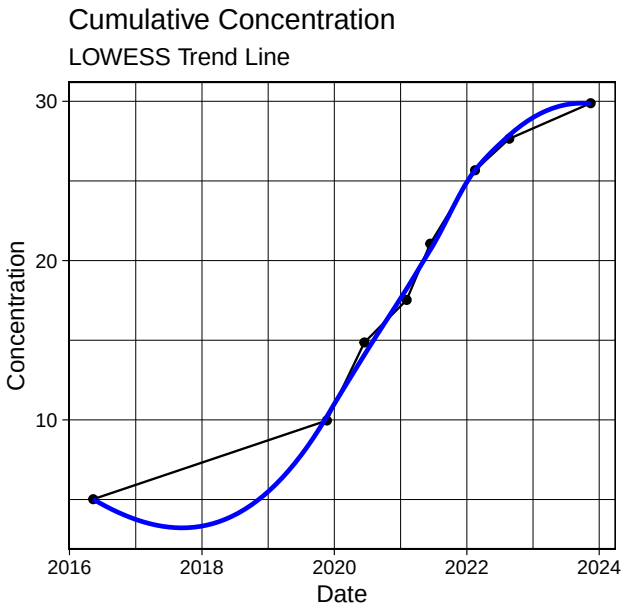




Kendall Trend Test Results Continuous	
n	8
z	-2.35
p	0.02
S	-20
varS	65.33
tau	-0.71
mean	3.73
sd	1.3
cov	0.35
results	DECREASING

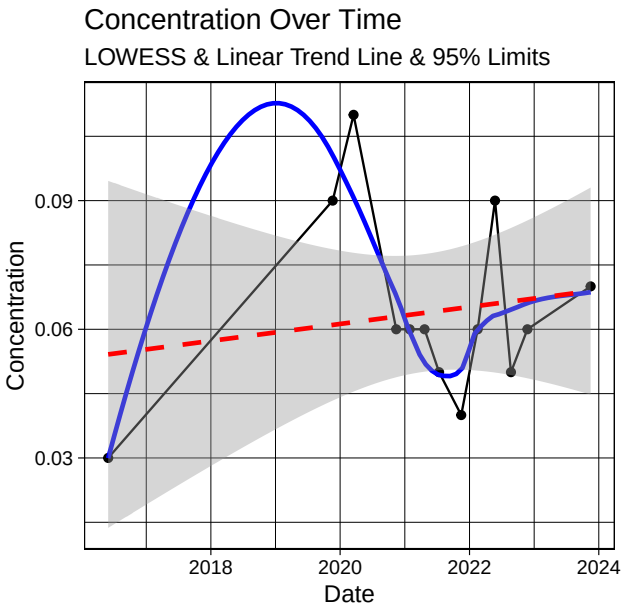
Report for ID : MW609 and Analyte : sum of PFHxS and PFOS

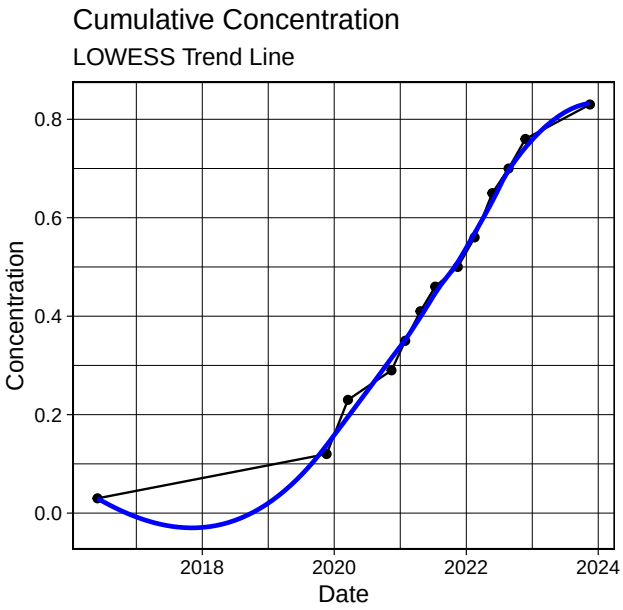




Kendall Trend Test Results Continuous	
n	13
z	0
p	1
S	0
varS	250
tau	0
mean	0.06
sd	0.02
cov	0.34
results	STABLE

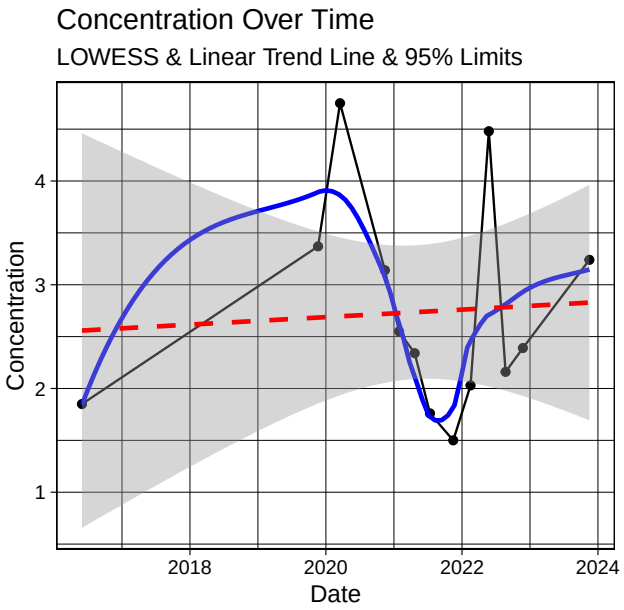
Report for ID : MW612 and Analyte : pfoa

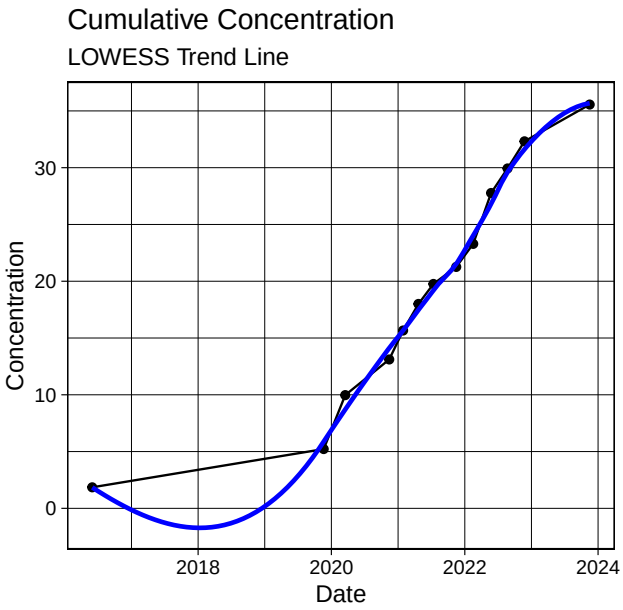




Kendall Trend Test Results Continuous	
n	13
z	-0.31
p	0.76
S	-6
varS	268.67
tau	-0.08
mean	2.74
sd	1.01
cov	0.37
results	STABLE

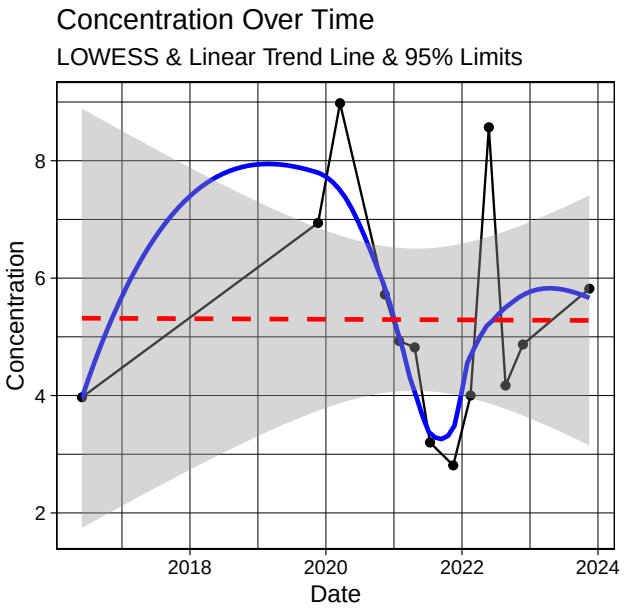
Report for ID : MW612 and Analyte : pfos

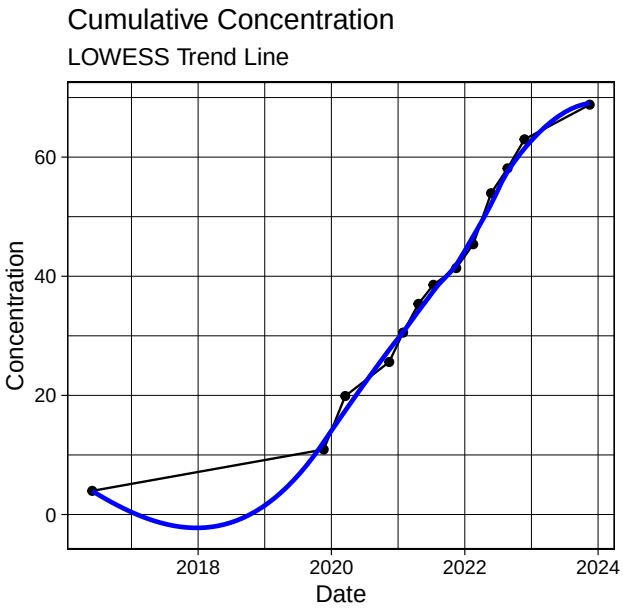




Kendall Trend Test Results Continuous	
n	13
z	-0.31
p	0.76
S	-6
varS	268.67
tau	-0.08
mean	5.29
sd	1.9
cov	0.36
results	STABLE

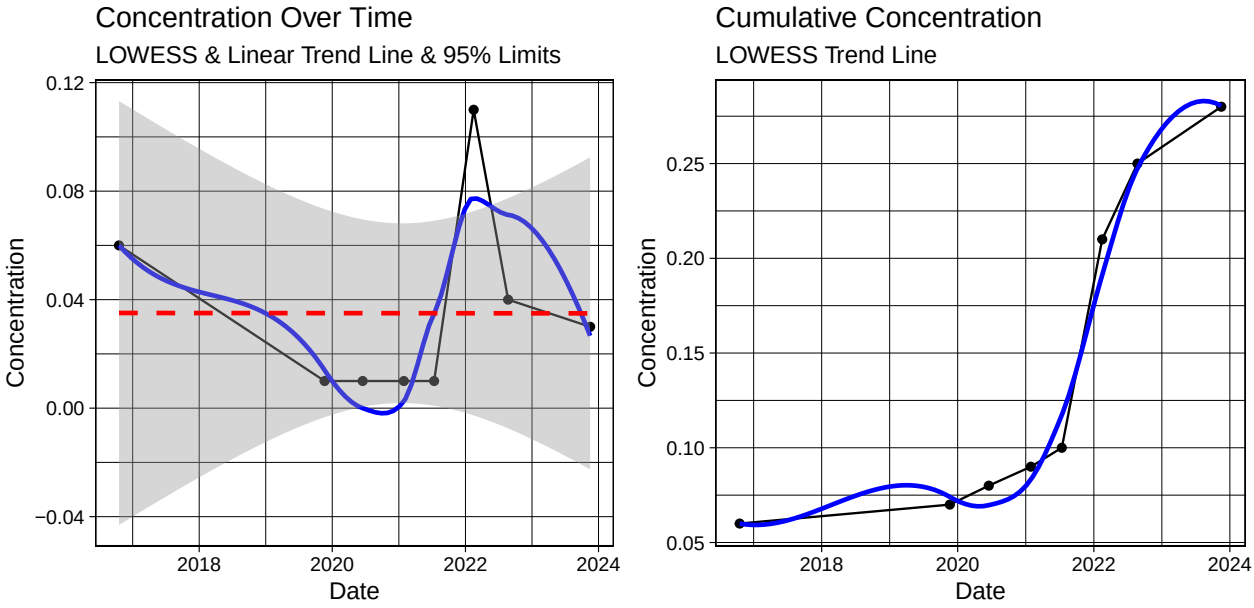
Report for ID : MW612 and Analyte : sum of PFHxS and PFOS





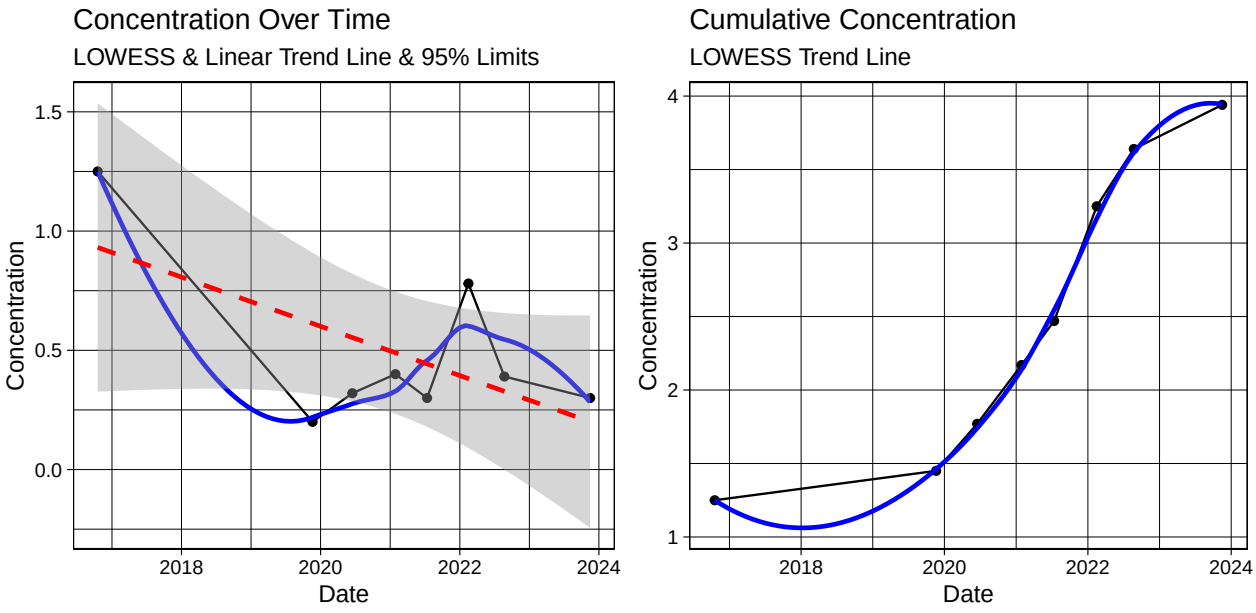
Kendall Trend Test Results Continuous	
n	8
z	0.4
p	0.69
S	4
varS	56.67
tau	0.16
mean	0.04
sd	0.04
cov	1.01
results	NO CLEAR TREND

Report for ID : MW724 and Analyte : pfoa



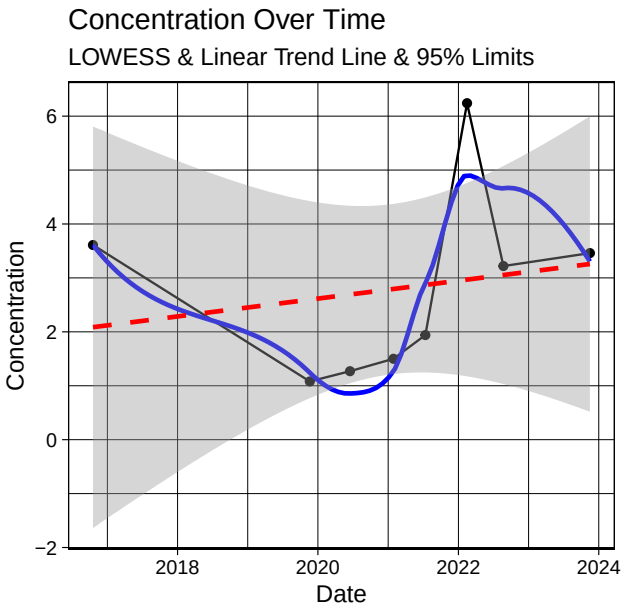
Kendall Trend Test Results Continuous	
n	8
z	-0.25
p	0.8
S	-3
varS	64.33
tau	-0.11
mean	0.49
sd	0.35
cov	0.71
results	STABLE

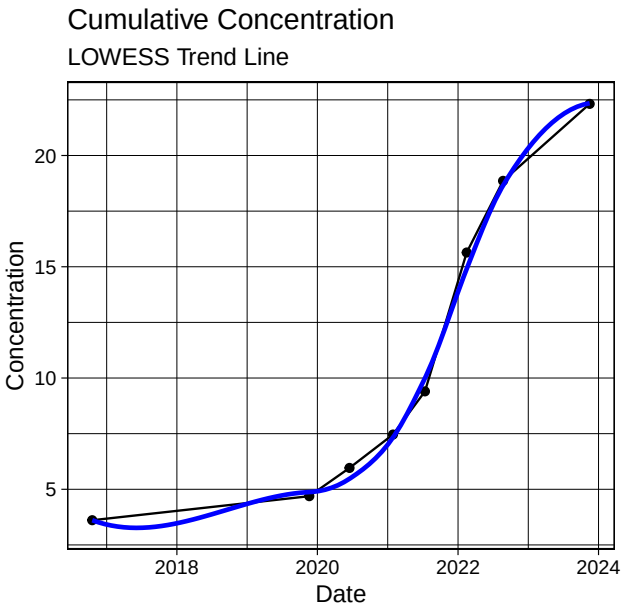
Report for ID : MW724 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	8
z	1.36
p	0.17
S	12
varS	65.33
tau	0.43
mean	2.79
sd	1.73
cov	0.62
results	NO CLEAR TREND

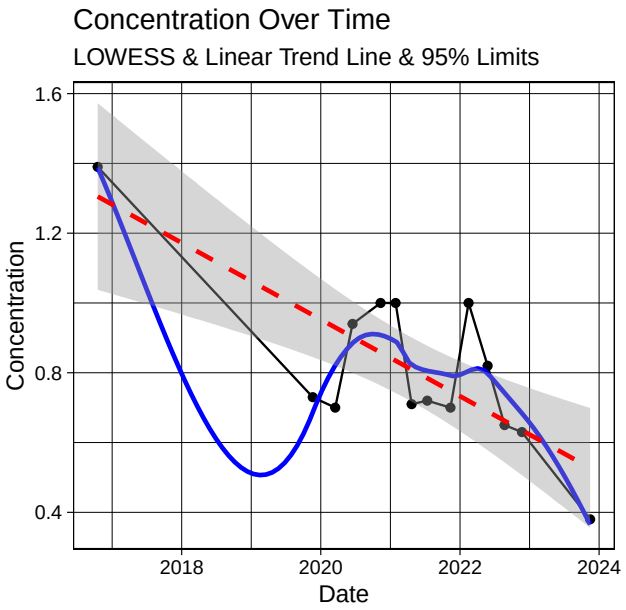
Report for ID : MW724 and Analyte : sum of PFHxS and PFOS

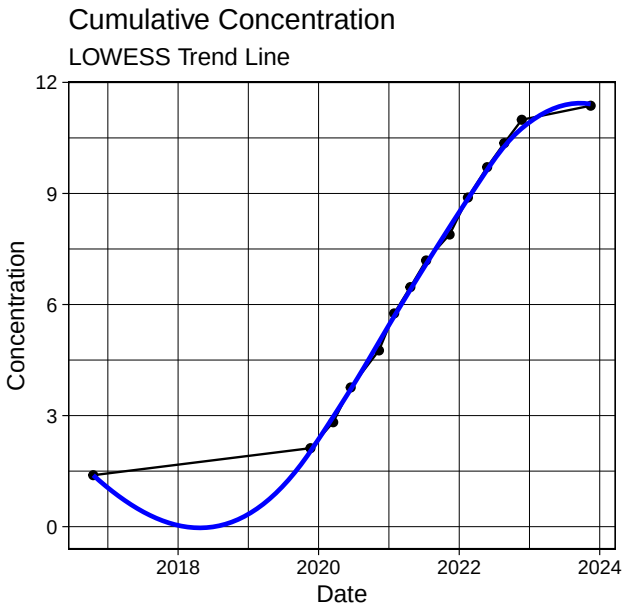




Kendall Trend Test Results Continuous	
n	14
z	-2.32
p	0.02
S	-43
varS	329
tau	-0.48
mean	0.81
sd	0.24
cov	0.3
results	DECREASING

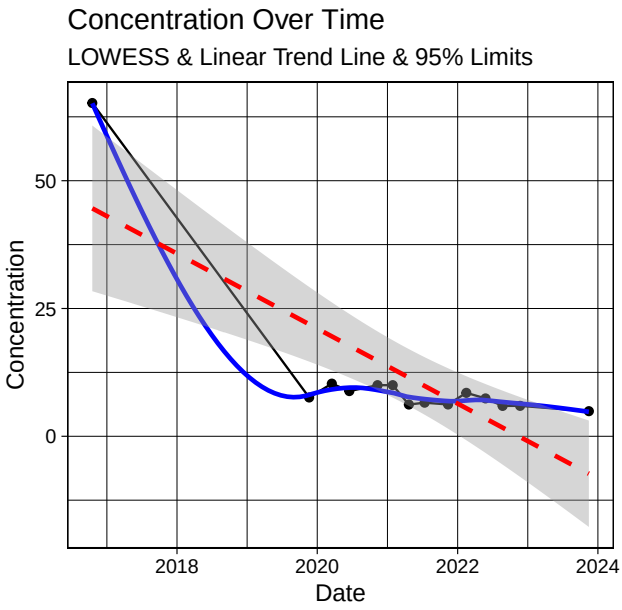
Report for ID : MW725 and Analyte : pfoa

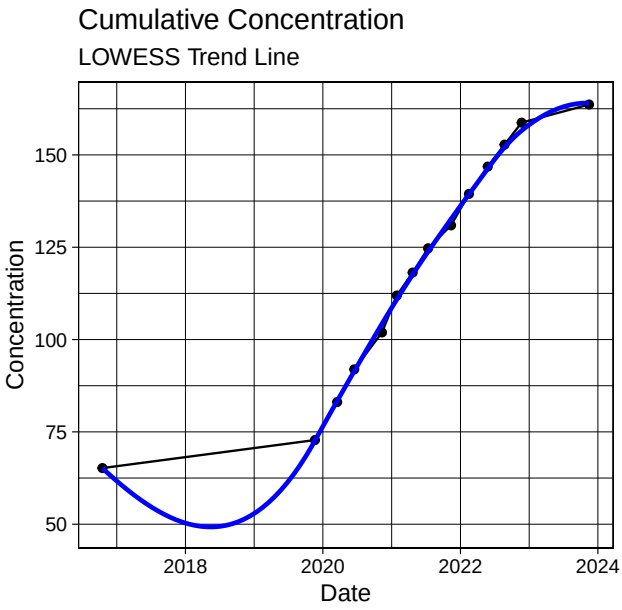




Kendall Trend Test Results Continuous	
n	14
z	-3.13
p	0
S	-58
varS	332.67
tau	-0.64
mean	11.69
sd	15.5
cov	1.33
results	DECREASING

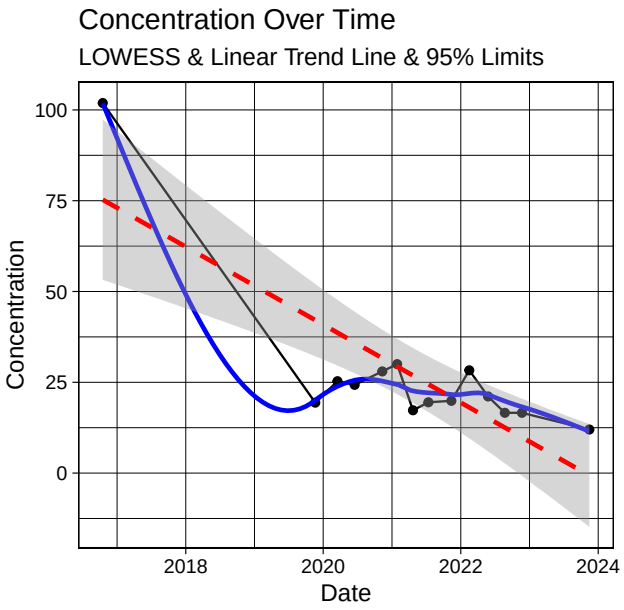
Report for ID : MW725 and Analyte : pfos

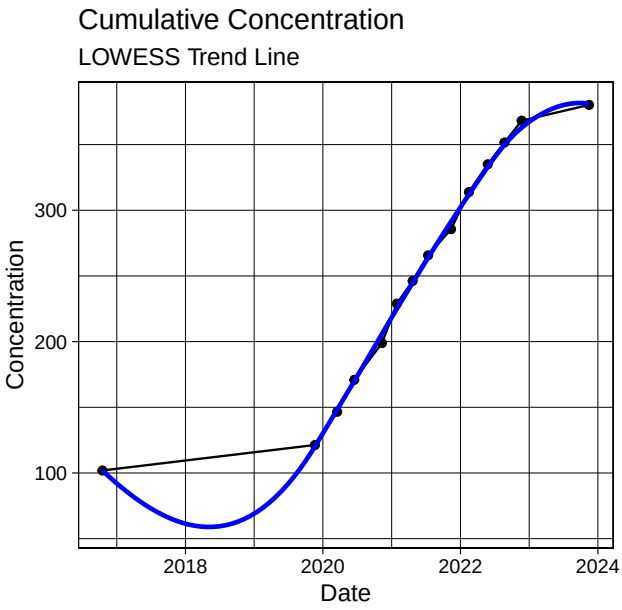




Kendall Trend Test Results Continuous	
n	14
z	-2.14
p	0.03
S	-40
varS	332.67
tau	-0.44
mean	27.16
sd	22.13
cov	0.81
results	DECREASING

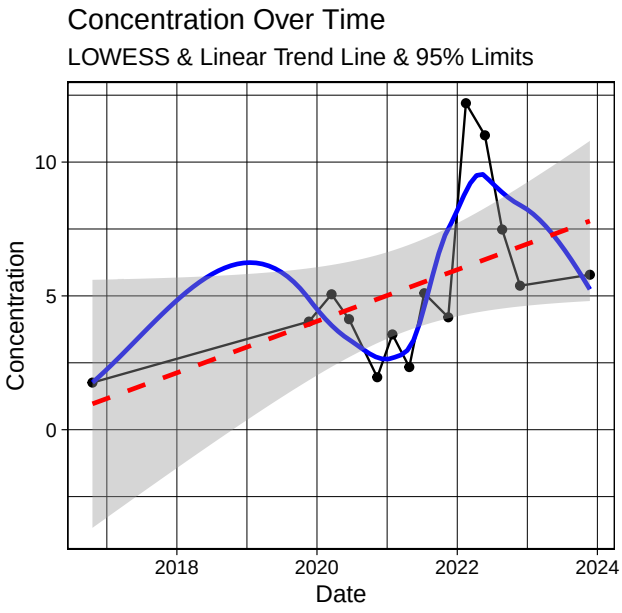
Report for ID : MW725 and Analyte : sum of PFHxS and PFOS

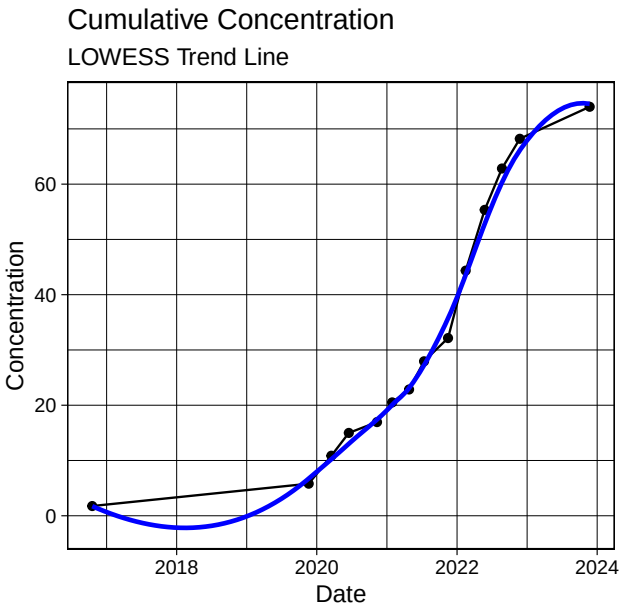




Kendall Trend Test Results Continuous	
n	14
z	2.52
p	0.01
S	47
varS	333.67
tau	0.52
mean	5.29
sd	3.1
cov	0.59
results	INCREASING

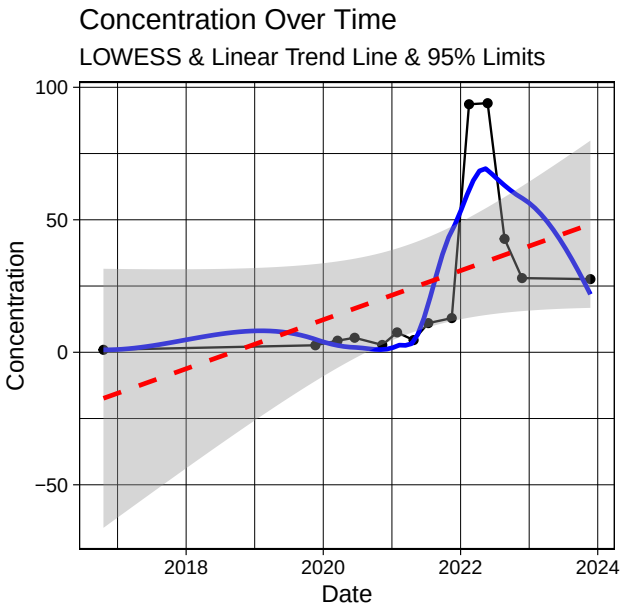
Report for ID : MW726 and Analyte : pfoa

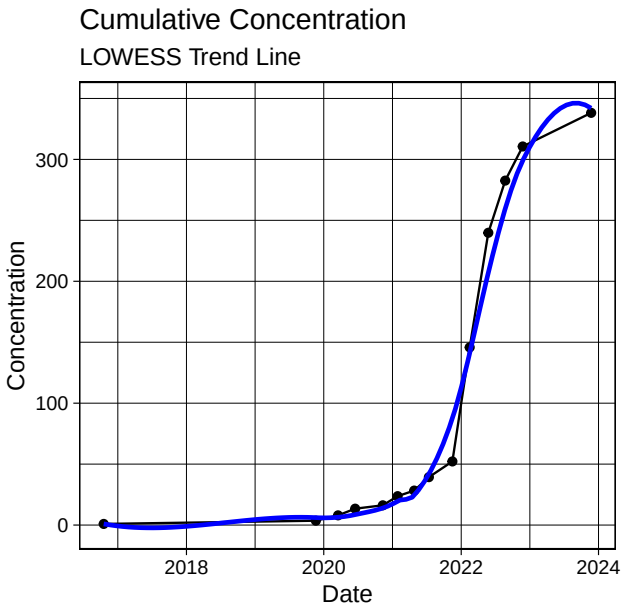




Kendall Trend Test Results Continuous	
n	14
z	3.5
p	0
S	65
varS	333.67
tau	0.71
mean	24.16
sd	31.91
cov	1.32
results	INCREASING

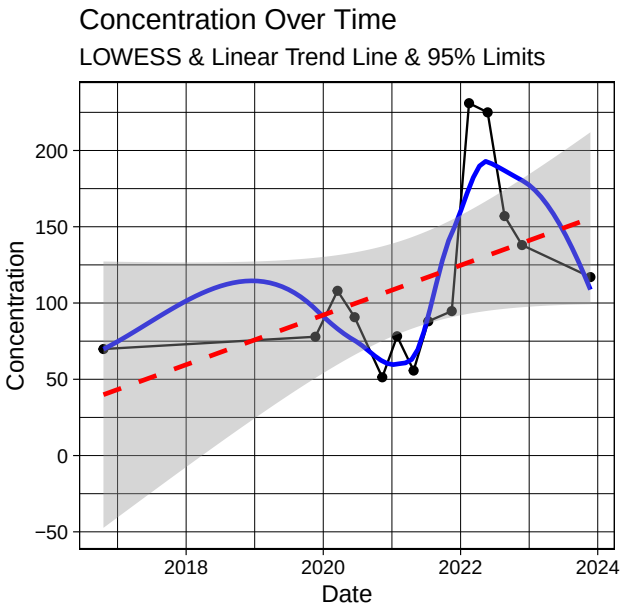
Report for ID : MW726 and Analyte : pfos

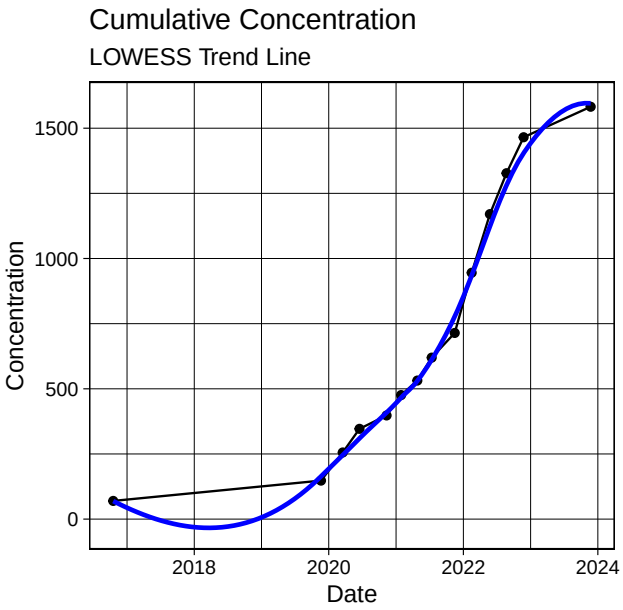




Kendall Trend Test Results Continuous	
n	14
z	2.19
p	0.03
S	41
varS	333.67
tau	0.45
mean	113.02
sd	56.79
cov	0.5
results	INCREASING

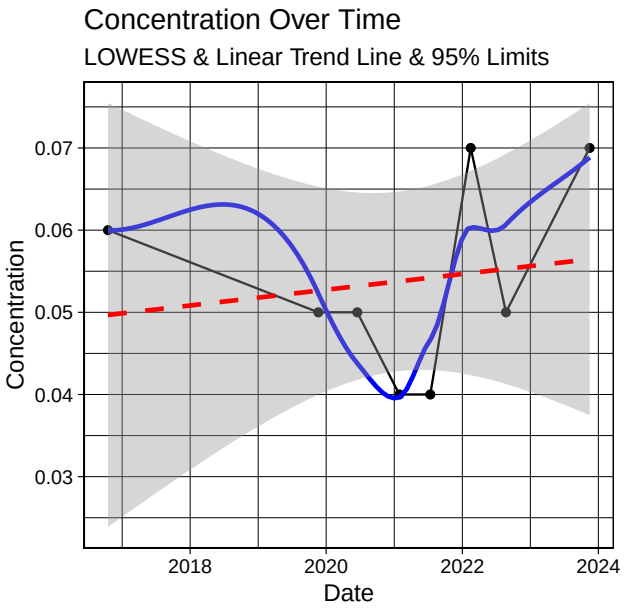
Report for ID : MW726 and Analyte : sum of PFHxS and PFOS

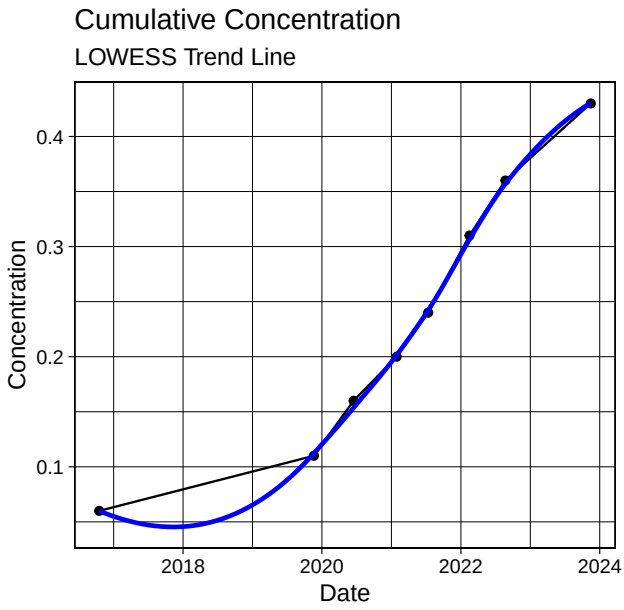




Kendall Trend Test Results Continuous	
n	8
z	0.26
p	0.8
S	3
varS	59.67
tau	0.12
mean	0.05
sd	0.01
cov	0.22
results	NO CLEAR TREND

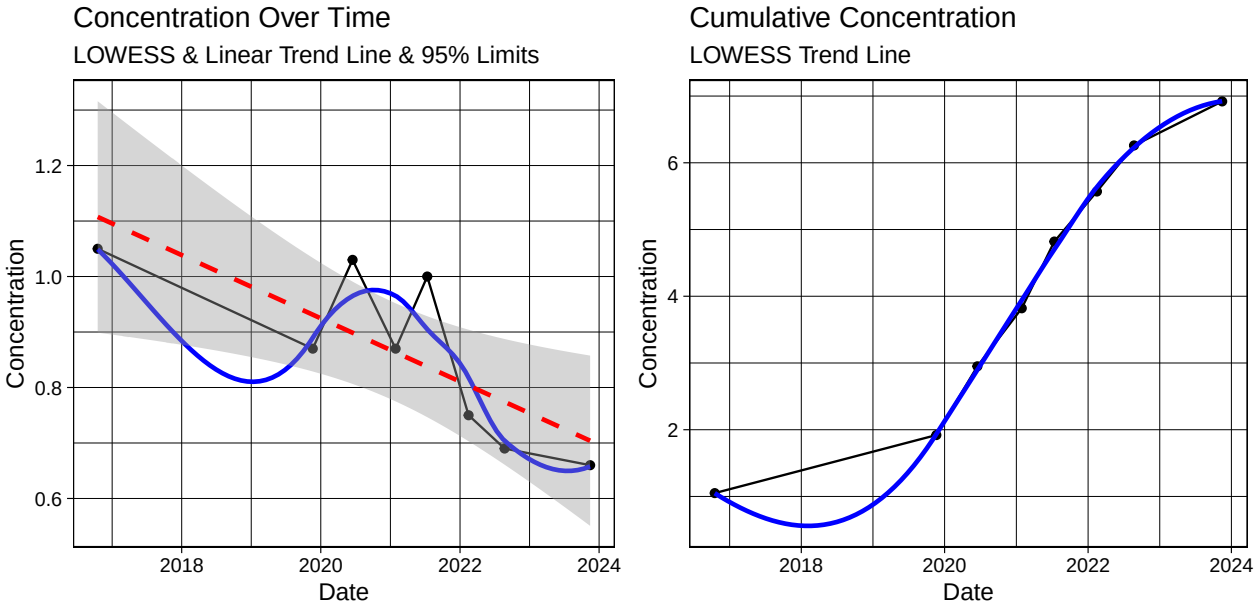
Report for ID : MW728 and Analyte : pfoa





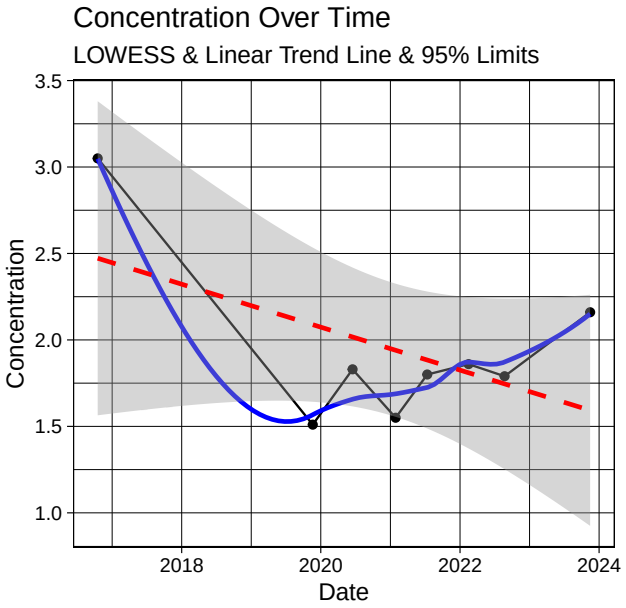
Kendall Trend Test Results Continuous	
n	8
z	-2.49
p	0.01
S	-21
varS	64.33
tau	-0.76
mean	0.86
sd	0.15
cov	0.18
results	DECREASING

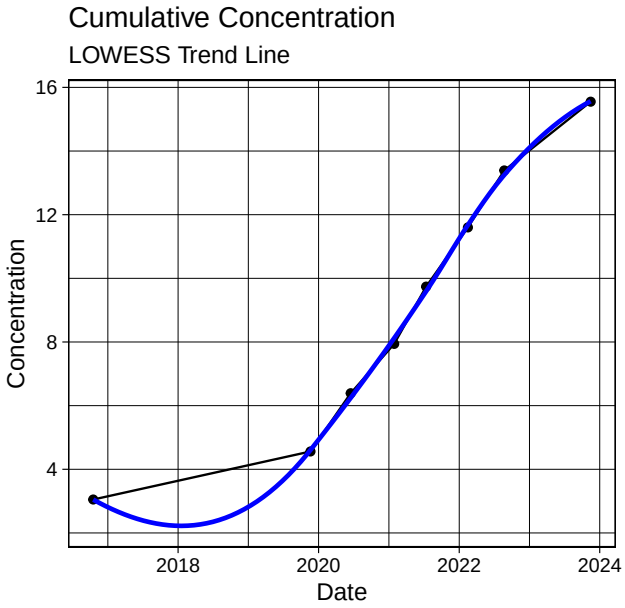
Report for ID : MW728 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	8
z	0.37
p	0.71
S	4
varS	65.33
tau	0.14
mean	1.94
sd	0.49
cov	0.25
results	NO CLEAR TREND

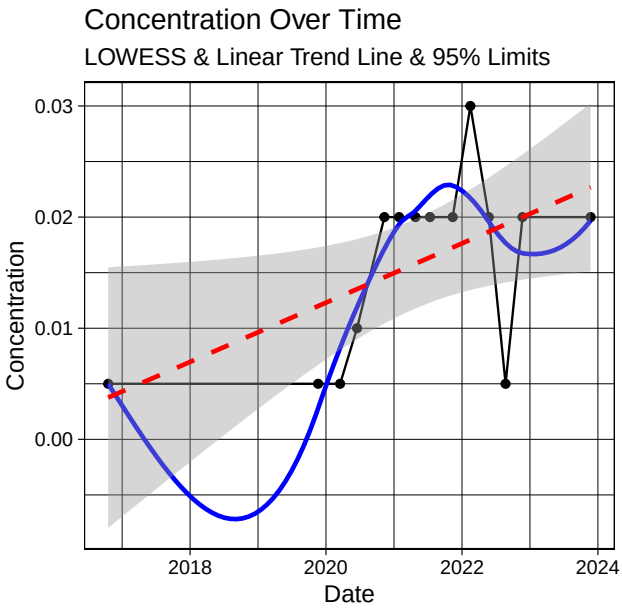
Report for ID : MW728 and Analyte : sum of PFHxS and PFOS

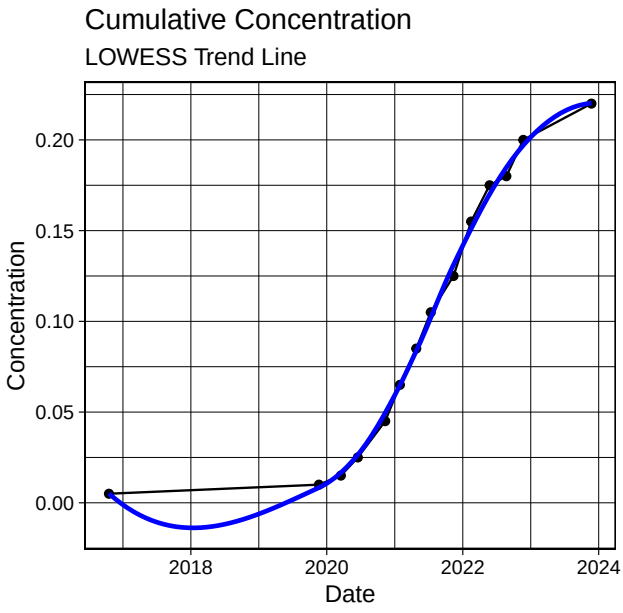




Kendall Trend Test Results Continuous	
n	14
z	2.11
p	0.03
S	35
varS	259.67
tau	0.49
mean	0.02
sd	0.01
cov	0.51
results	INCREASING

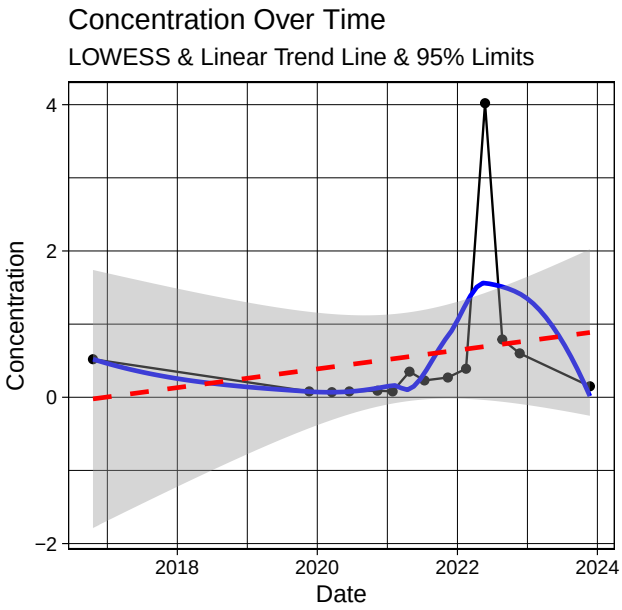
Report for ID : MW733 and Analyte : pfoa

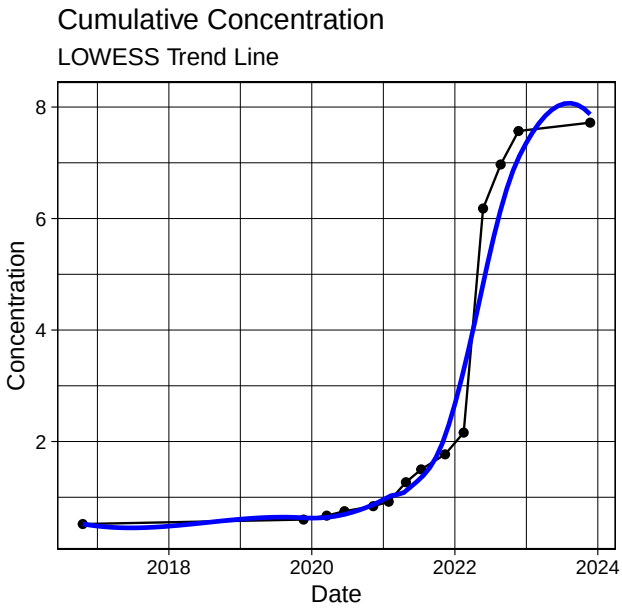




Kendall Trend Test Results Continuous	
n	14
z	2.15
p	0.03
S	40
varS	330
tau	0.45
mean	0.55
sd	1.02
cov	1.86
results	INCREASING

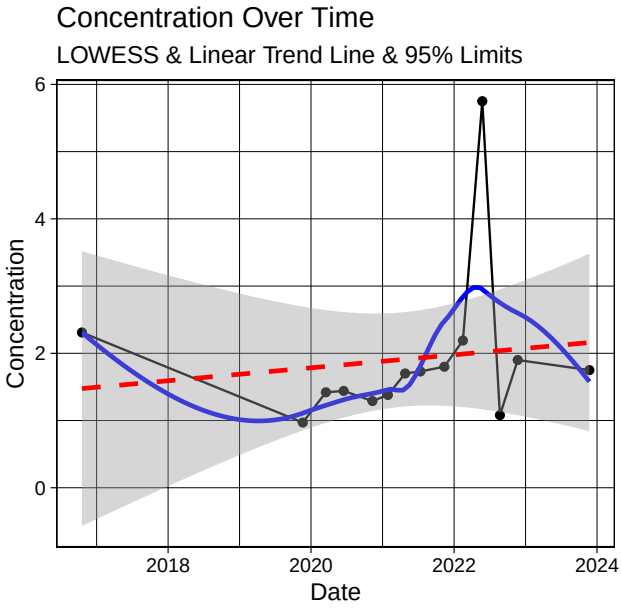
Report for ID : MW733 and Analyte : pfos

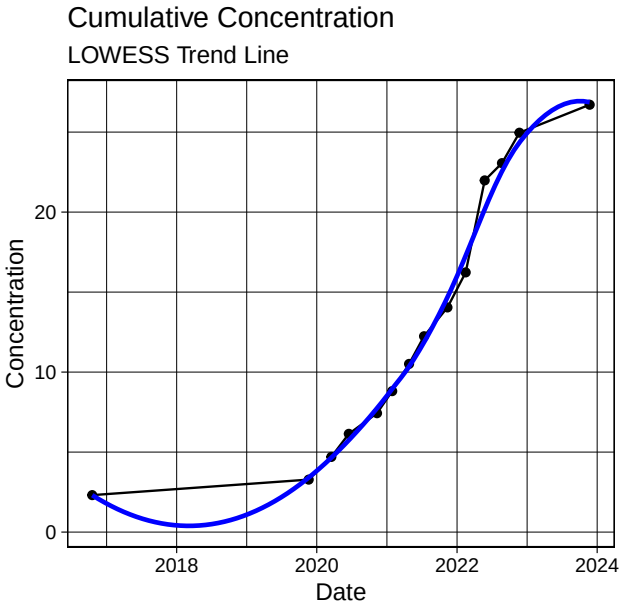




Kendall Trend Test Results Continuous	
n	14
z	1.53
p	0.13
S	29
varS	333.67
tau	0.32
mean	1.91
sd	1.17
cov	0.61
results	NO CLEAR TREND

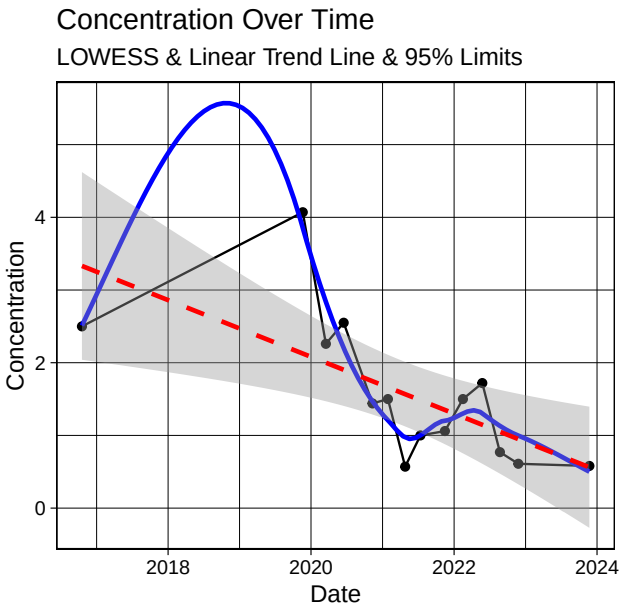
Report for ID : MW733 and Analyte : sum of PFHxS and PFOS

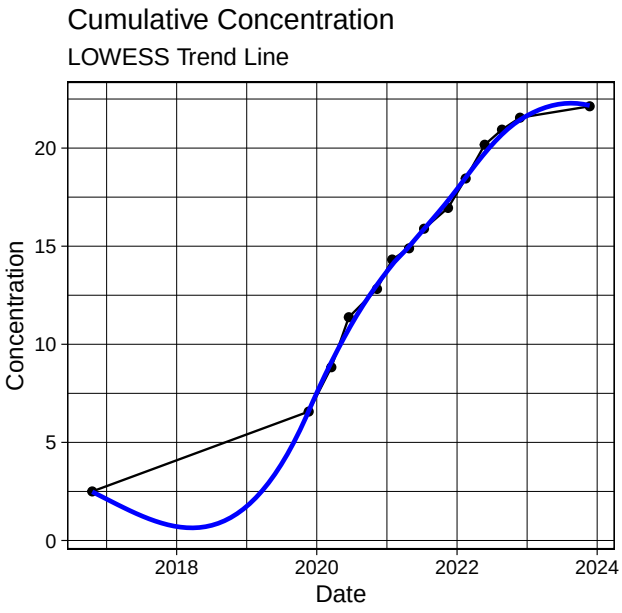




Kendall Trend Test Results Continuous	
n	14
z	-2.69
p	0.01
S	-50
varS	332.67
tau	-0.55
mean	1.58
sd	0.99
cov	0.63
results	DECREASING

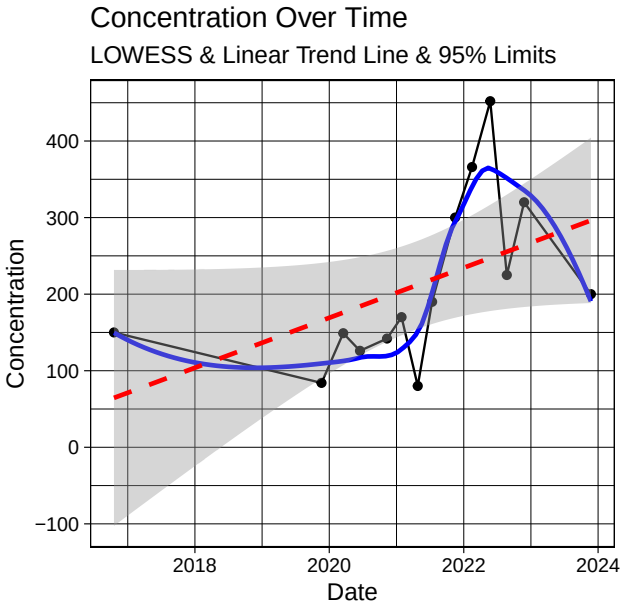
Report for ID : MW734 and Analyte : pfoa

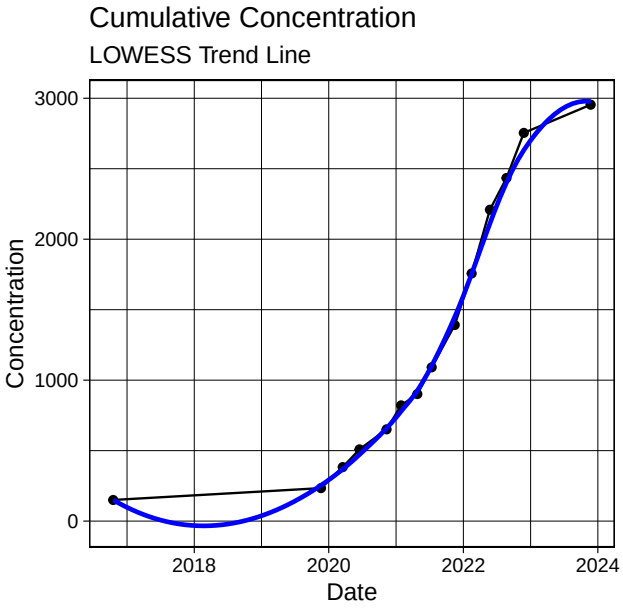




Kendall Trend Test Results Continuous	
n	14
z	2.52
p	0.01
S	47
varS	333.67
tau	0.52
mean	211.01
sd	109.94
cov	0.52
results	INCREASING

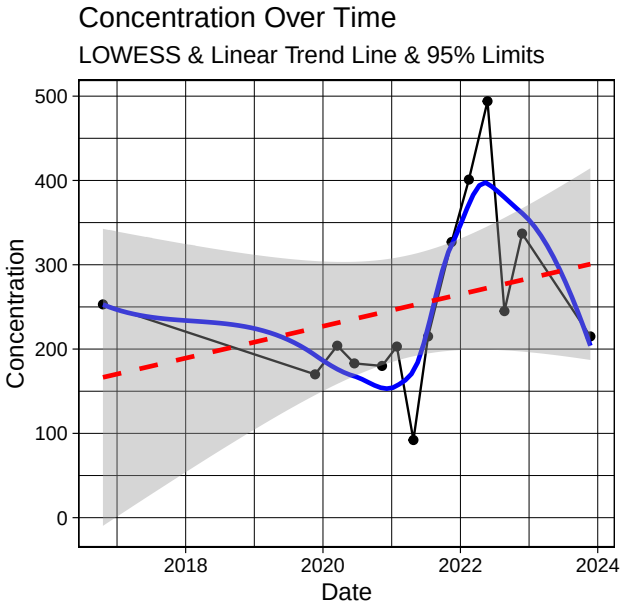
Report for ID : MW734 and Analyte : pfos

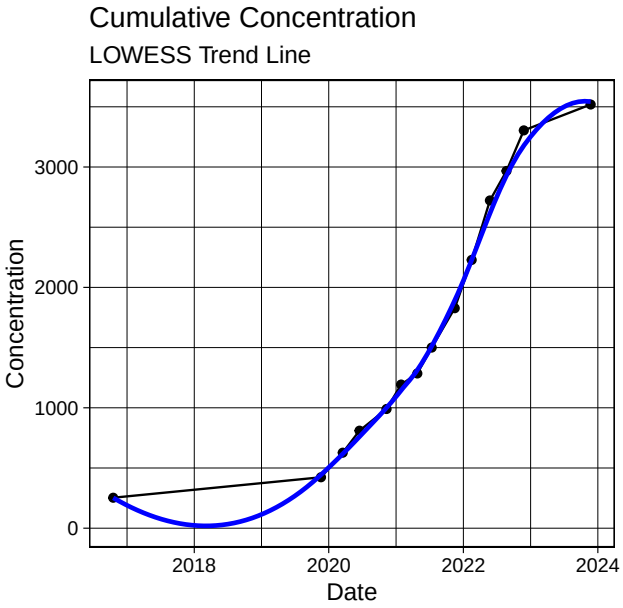




Kendall Trend Test Results Continuous	
n	14
z	1.81
p	0.07
S	34
varS	332.67
tau	0.38
mean	251.36
sd	105.01
cov	0.42
results	POSSIBLY INCREASING

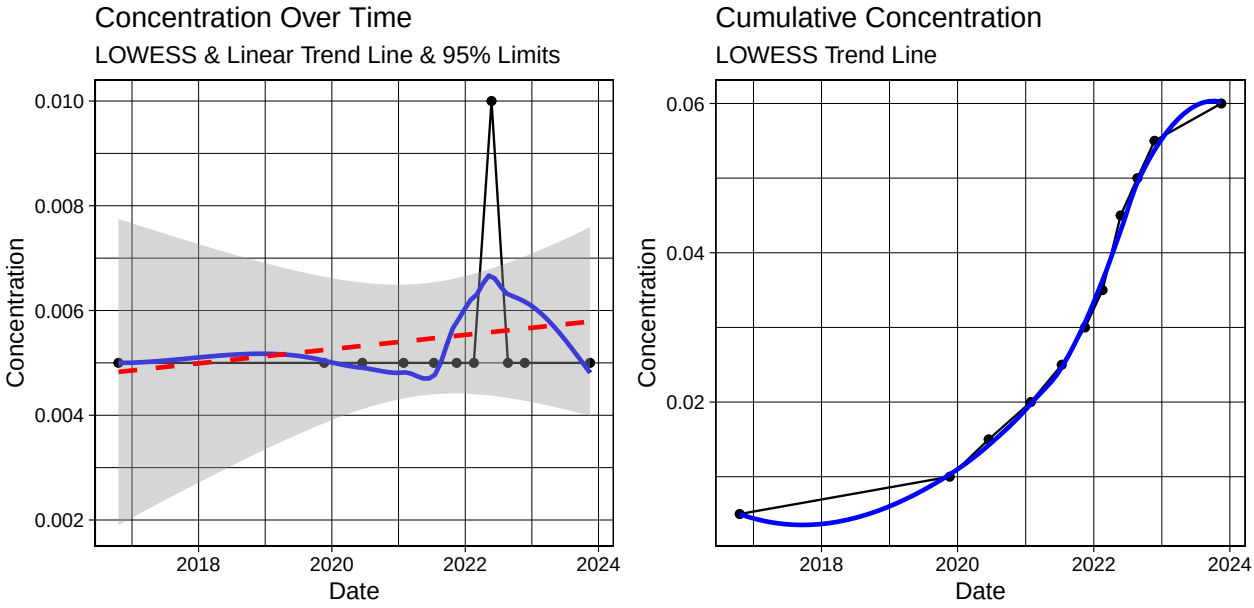
Report for ID : MW734 and Analyte : sum of PFHxS and PFOS





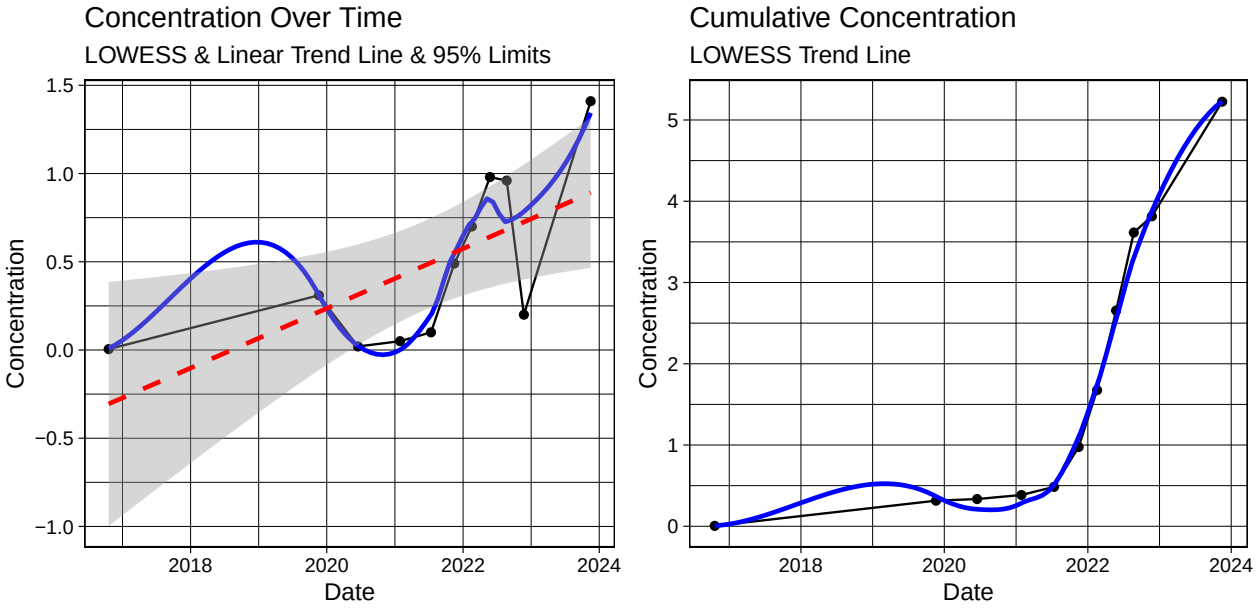
Kendall Trend Test Results Continuous	
n	11
z	0.47
p	0.64
S	4
varS	40
tau	0.17
mean	0.01
sd	0
cov	0.28
results	NO CLEAR TREND

Report for ID : MW737 and Analyte : pfoa



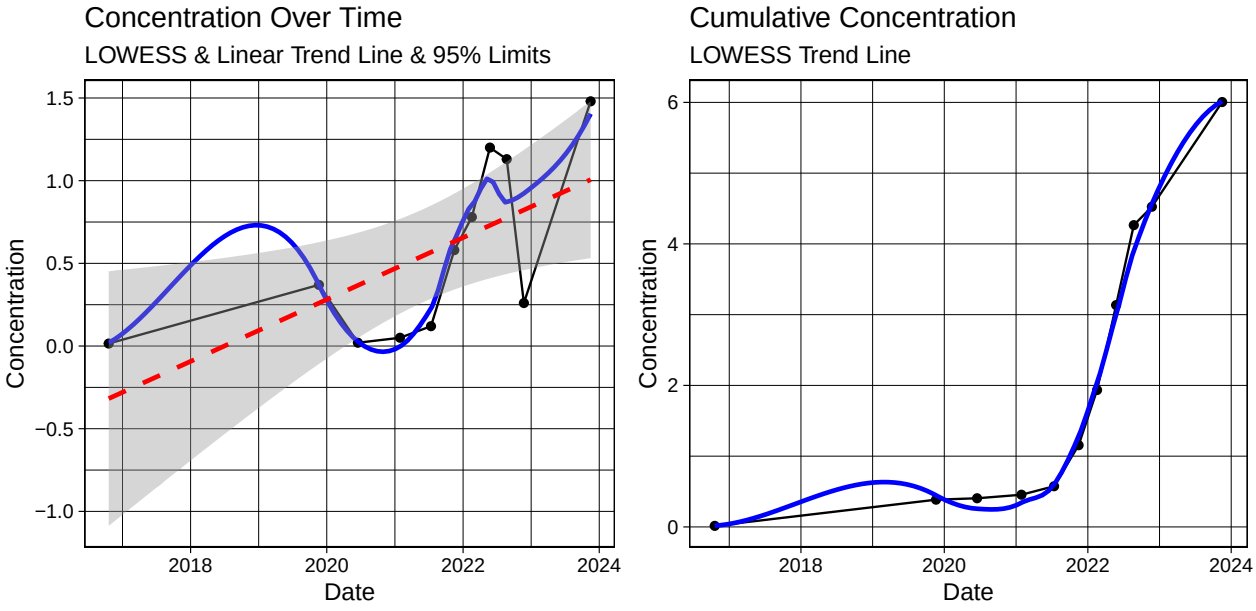
Kendall Trend Test Results Continuous	
n	11
z	2.8
p	0.01
S	37
varS	165
tau	0.67
mean	0.48
sd	0.48
cov	1
results	INCREASING

Report for ID : MW737 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	11
z	2.8
p	0.01
S	37
varS	165
tau	0.67
mean	0.55
sd	0.53
cov	0.97
results	INCREASING

Report for ID : MW737 and Analyte : sum of PFHxS and PFOS



Trend Report

Report Date & Time: 2024-02-09 01:19:48

Data File Name: Central_General_Area_23_Open_UCL_Input_V1.csv

Report Title: Groundwater Trend Data_Central_General_Area_23

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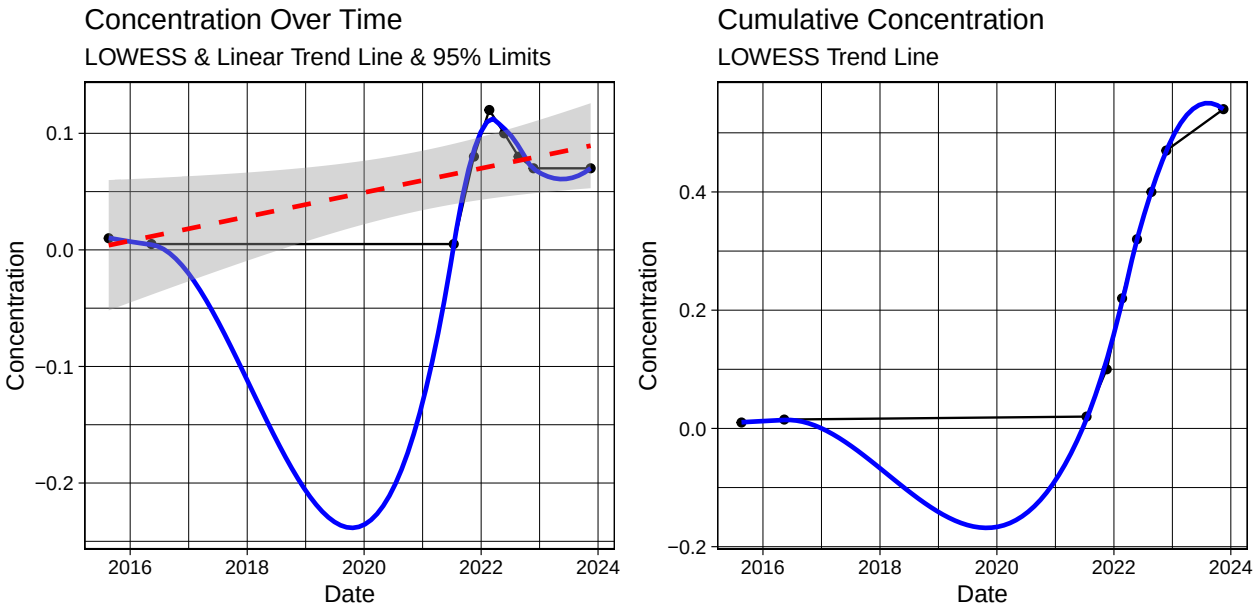
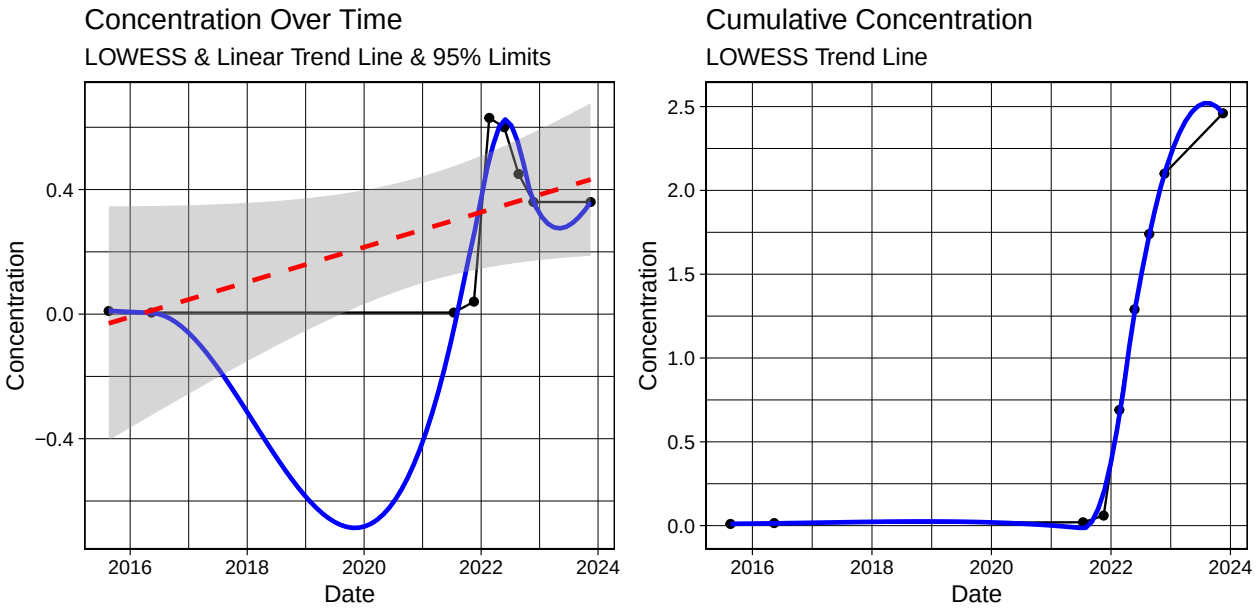
Kendall Trend Test Results Continuous	
n	9
z	0.64
p	0.52
S	7
varS	89
tau	0.2
mean	0.06
sd	0.04
cov	0.72
results	NO CLEAR TREND

Report for ID : MW636 and Analyte : pfoa



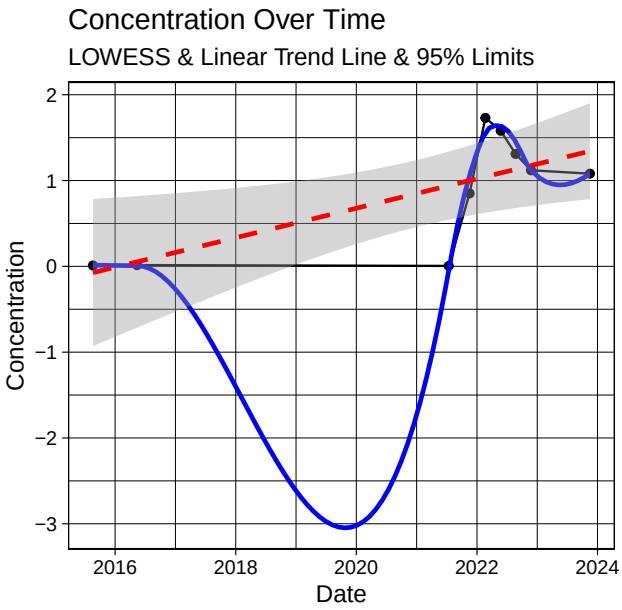
Kendall Trend Test Results Continuous	
n	9
z	1.16
p	0.25
S	12
varS	90
tau	0.34
mean	0.27
sd	0.26
cov	0.96
results	NO CLEAR TREND

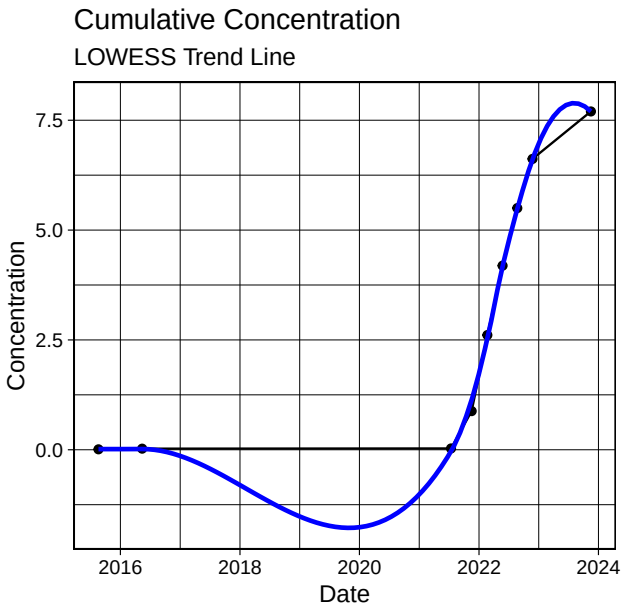
Report for ID : MW636 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	9
z	1.15
p	0.25
S	12
varS	92
tau	0.33
mean	0.86
sd	0.69
cov	0.8
results	NO CLEAR TREND

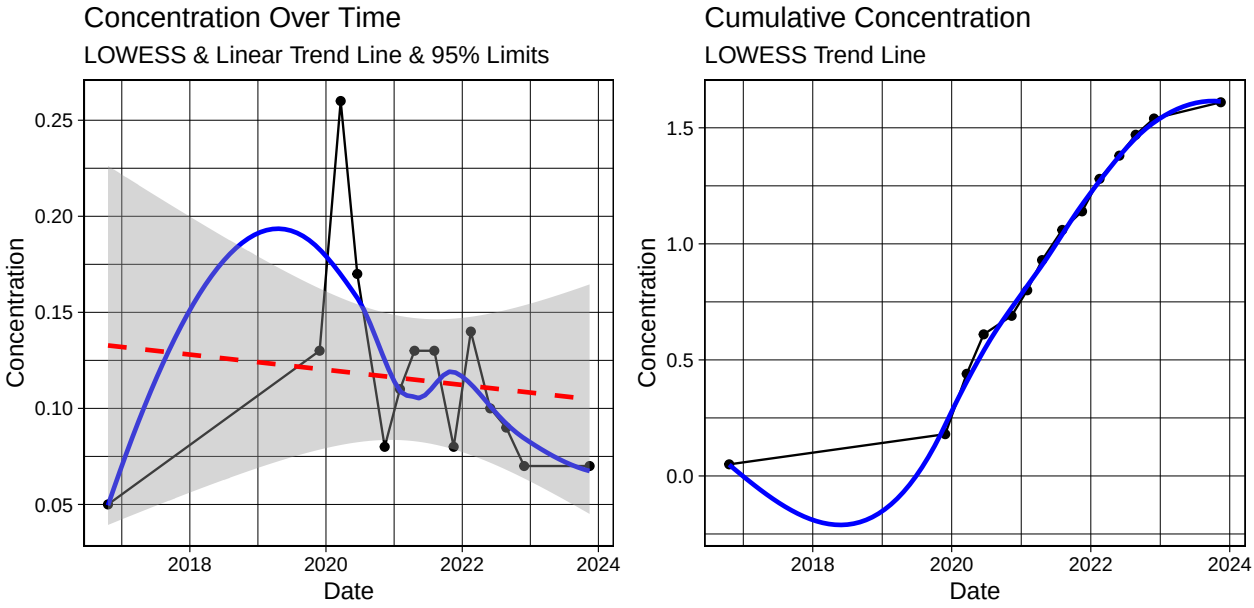
Report for ID : MW636 and Analyte : sum of PFHxS and PFOS





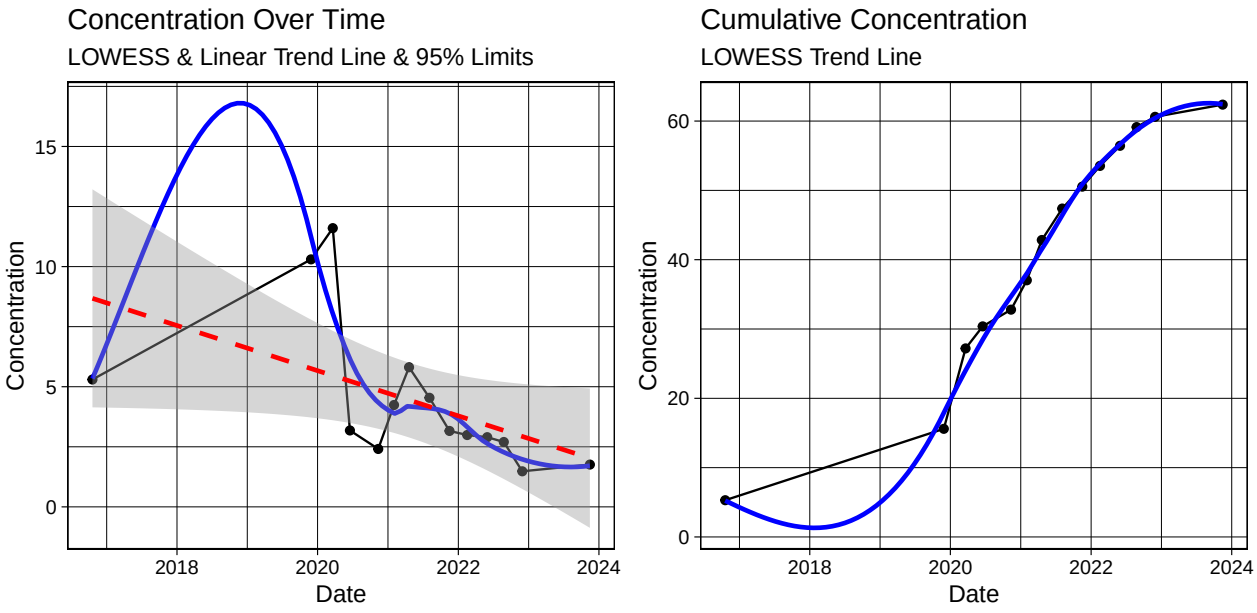
Kendall Trend Test Results Continuous	
n	14
z	-1.38
p	0.17
S	-26
varS	328
tau	-0.29
mean	0.12
sd	0.05
cov	0.46
results	STABLE

Report for ID : MW707 and Analyte : pfoa



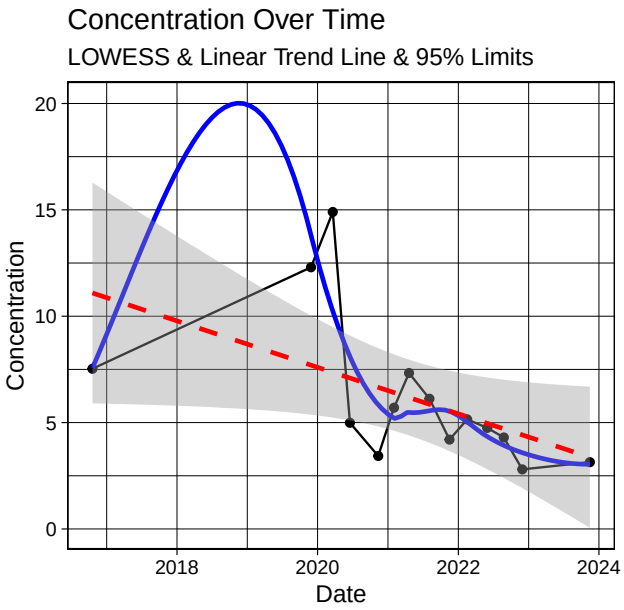
Kendall Trend Test Results Continuous	
n	14
z	-3.07
p	0
S	-57
varS	333.67
tau	-0.63
mean	4.46
sd	3.03
cov	0.68
results	DECREASING

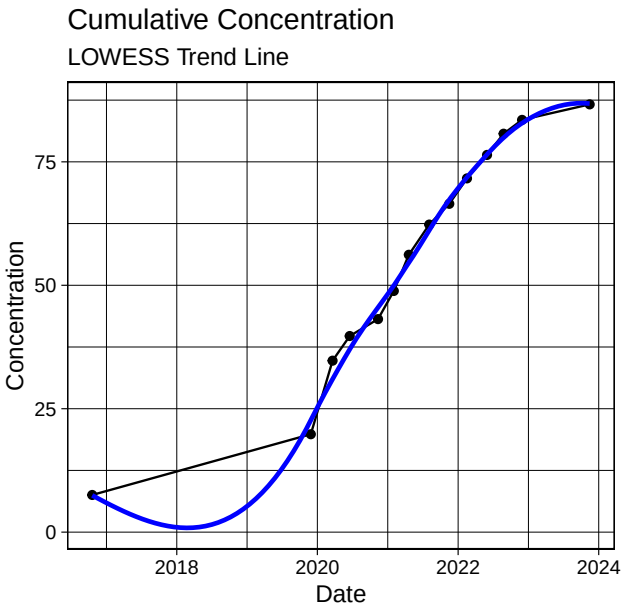
Report for ID : MW707 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	-2.74
p	0.01
S	-51
varS	333.67
tau	-0.56
mean	6.19
sd	3.48
cov	0.56
results	DECREASING

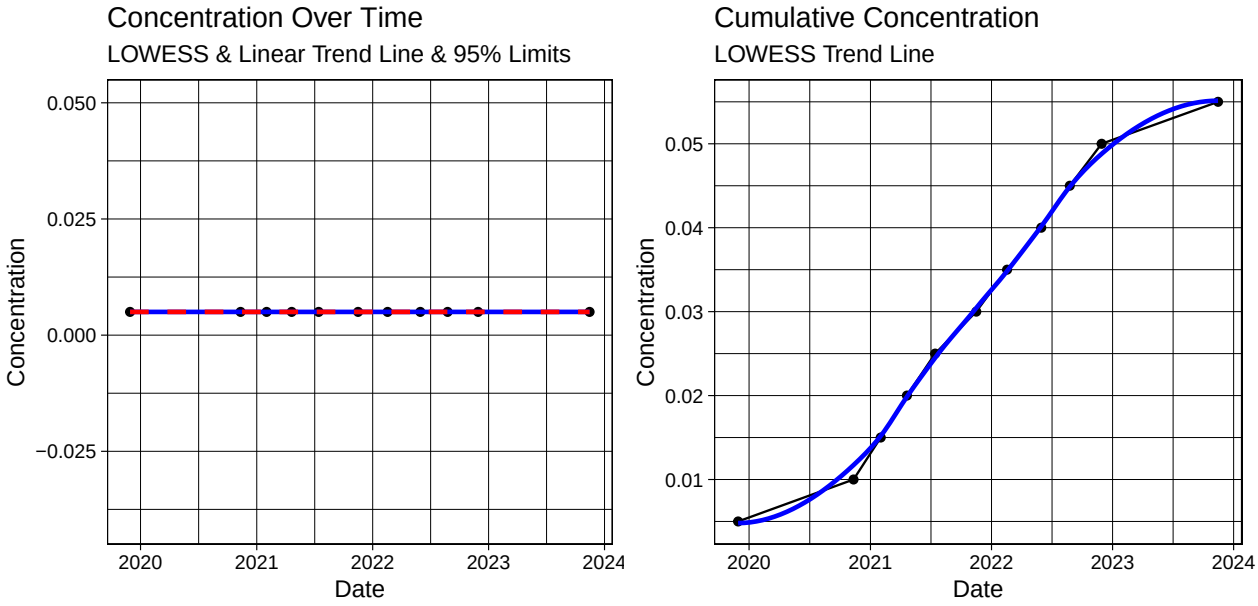
Report for ID : MW707 and Analyte : sum of PFHxS and PFOS





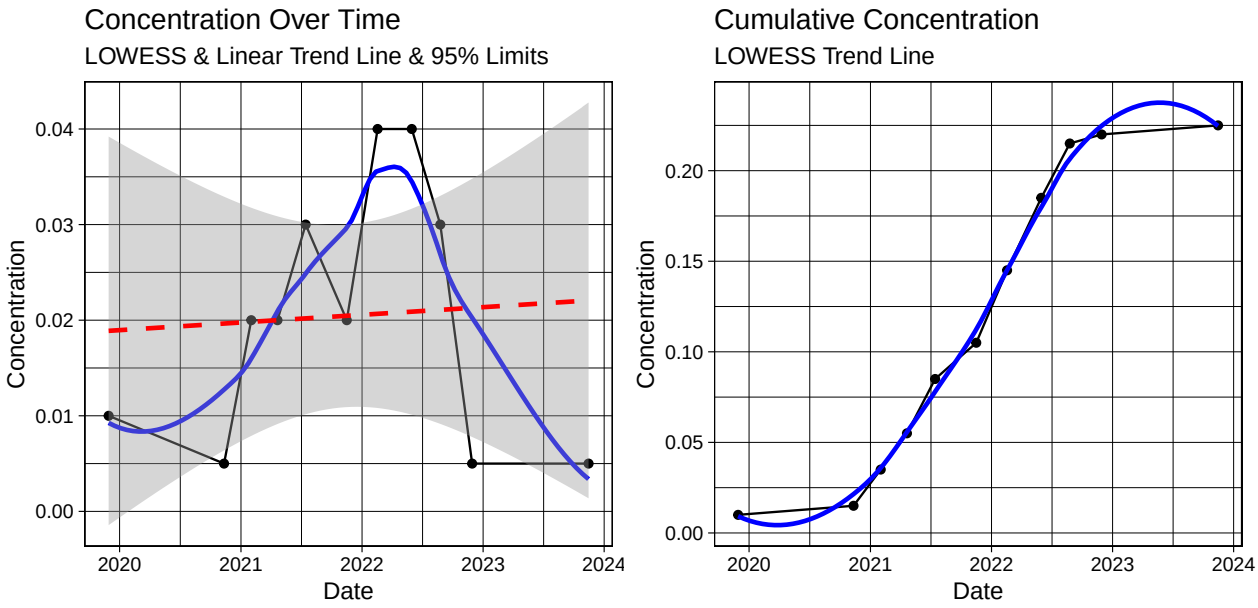
Kendall Trend Test Results Continuous	
n	11
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

Report for ID : MW712 and Analyte : pfoa



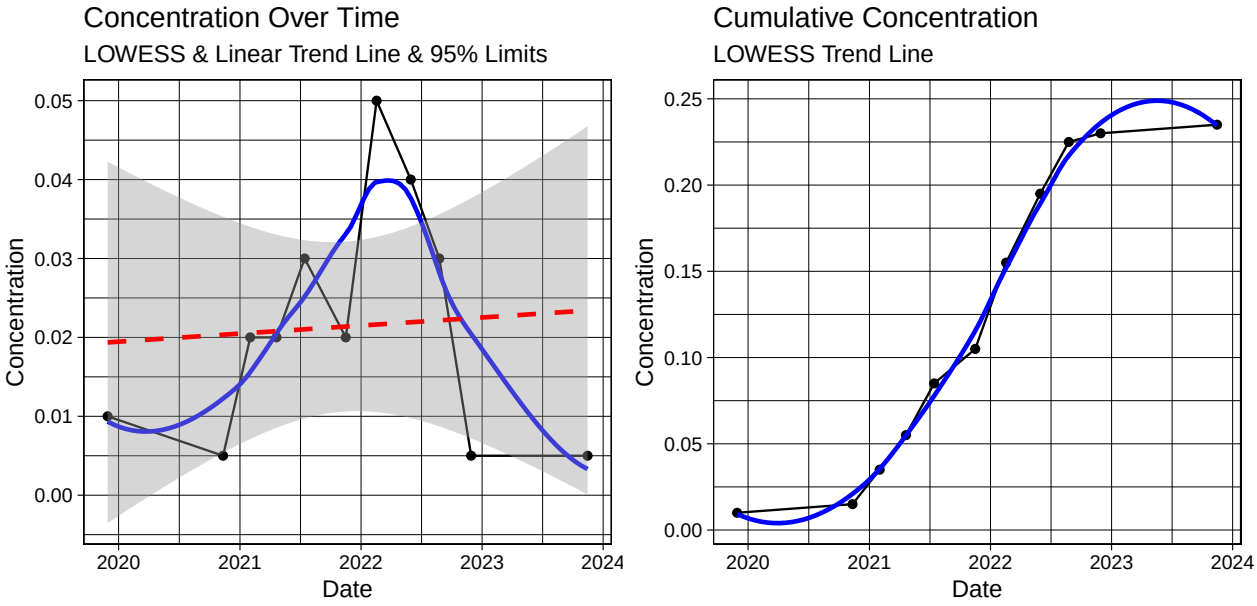
Kendall Trend Test Results Continuous	
n	11
z	0.48
p	0.63
S	7
varS	155.67
tau	0.14
mean	0.02
sd	0.01
cov	0.65
results	NO CLEAR TREND

Report for ID : MW712 and Analyte : pfos



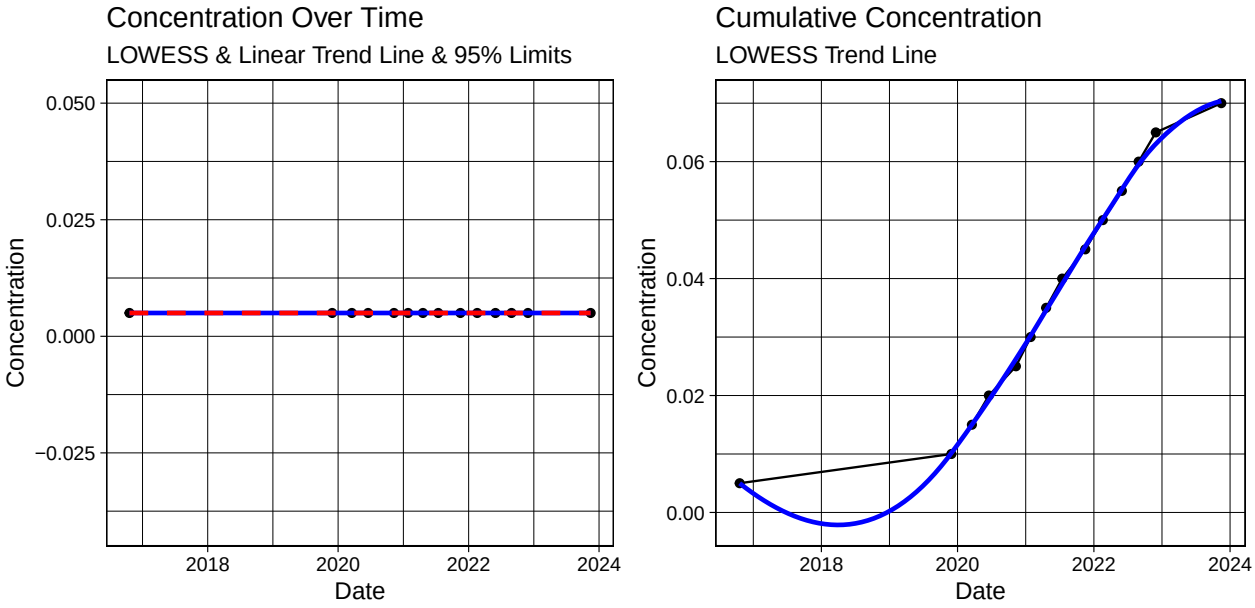
Kendall Trend Test Results Continuous	
n	11
z	0.4
p	0.69
S	6
varS	156.67
tau	0.12
mean	0.02
sd	0.02
cov	0.7
results	NO CLEAR TREND

Report for ID : MW712 and Analyte : sum of PFHxS and PFOS



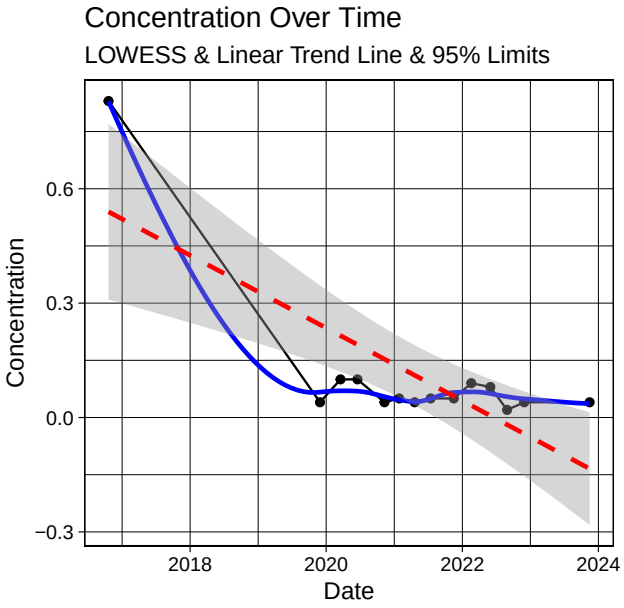
Kendall Trend Test Results Continuous	
n	14
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

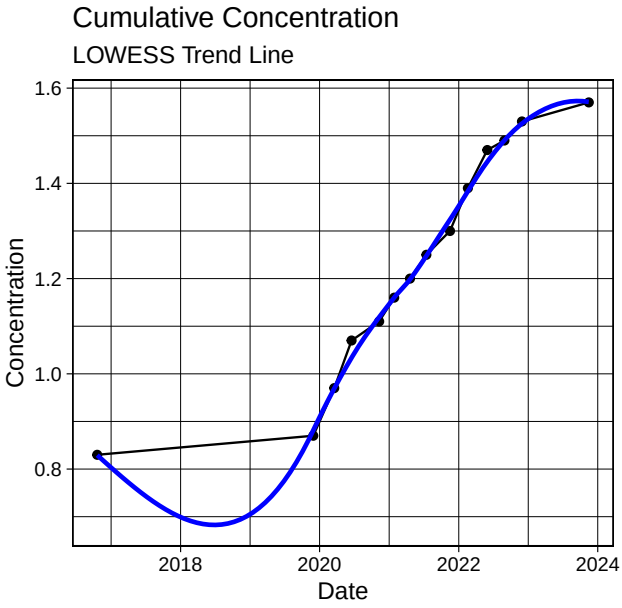
Report for ID : MW714 and Analyte : pfoa



Kendall Trend Test Results Continuous	
n	14
z	-1.58
p	0.11
S	-29
varS	312.33
tau	-0.35
mean	0.11
sd	0.21
cov	1.86
results	NO CLEAR TREND

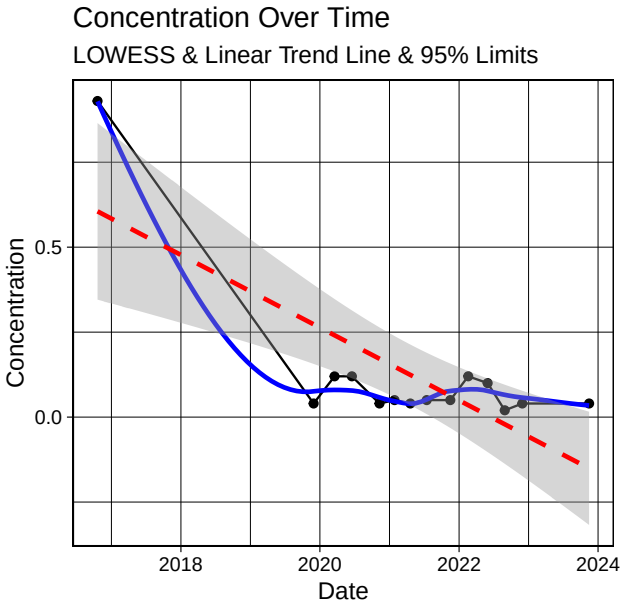
Report for ID : MW714 and Analyte : pfos

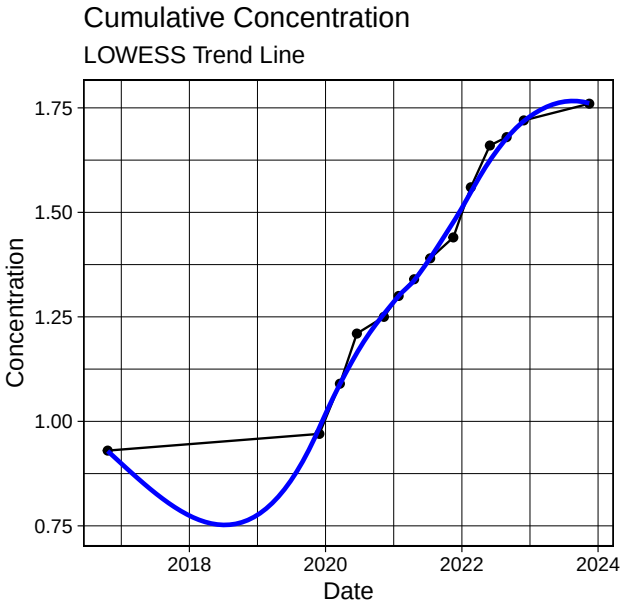




Kendall Trend Test Results Continuous	
n	14
z	-1.48
p	0.14
S	-27
varS	309.67
tau	-0.33
mean	0.13
sd	0.23
cov	1.86
results	NO CLEAR TREND

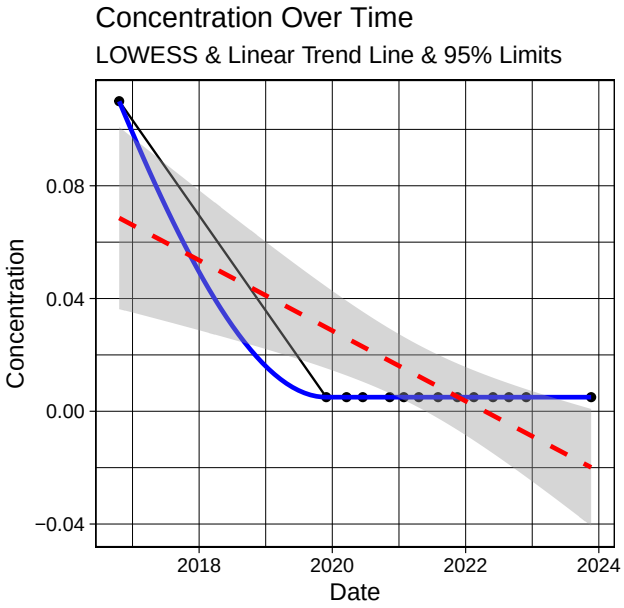
Report for ID : MW714 and Analyte : sum of PFHxS and PFOS

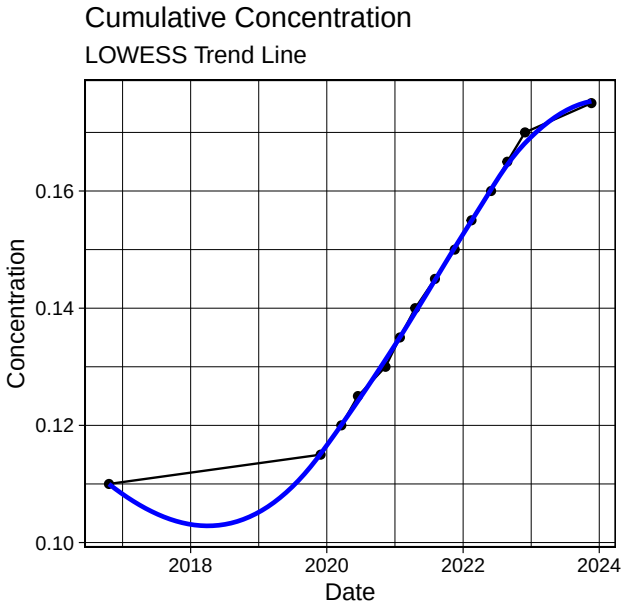




Kendall Trend Test Results Continuous	
n	14
z	-1.49
p	0.14
S	-13
varS	65
tau	-0.38
mean	0.01
sd	0.03
cov	2.24
results	NO CLEAR TREND

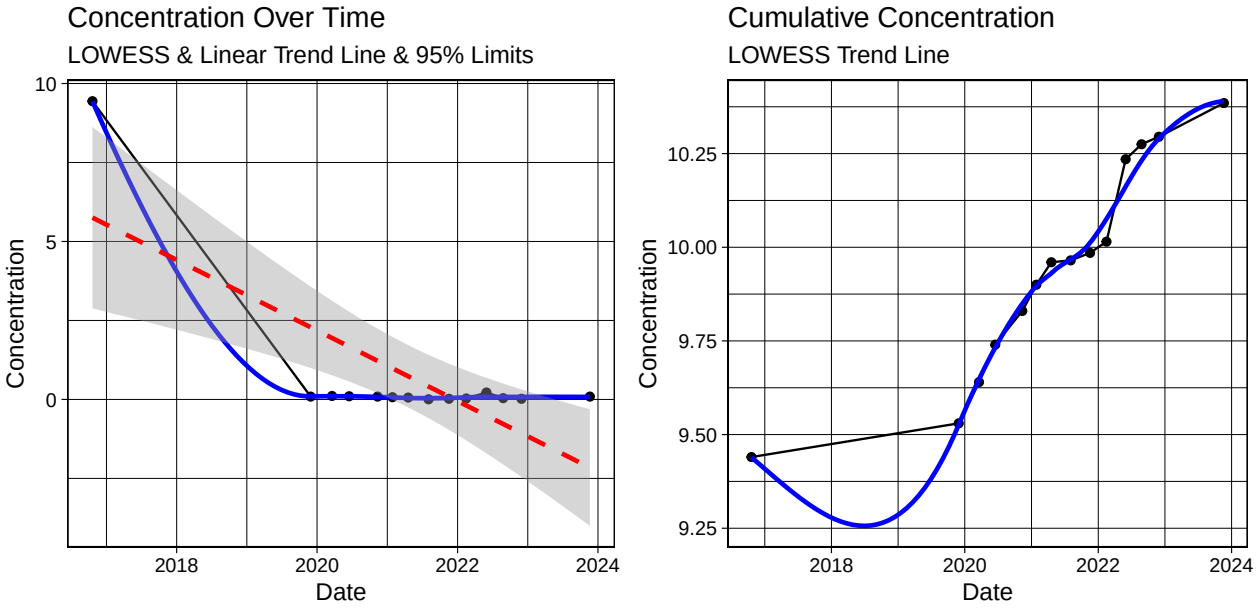
Report for ID : MW716 and Analyte : pfoa





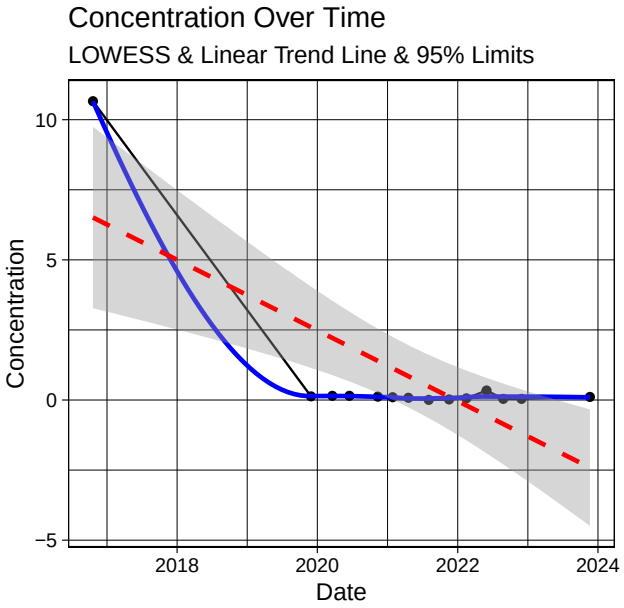
Kendall Trend Test Results Continuous	
n	14
z	-1.98
p	0.05
S	-37
varS	329
tau	-0.42
mean	0.74
sd	2.5
cov	3.38
results	DECREASING

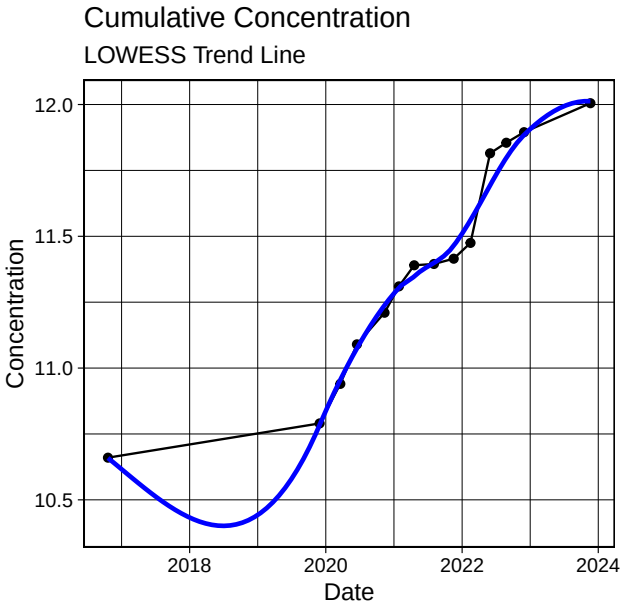
Report for ID : MW716 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	-2.09
p	0.04
S	-39
varS	331.67
tau	-0.43
mean	0.86
sd	2.82
cov	3.29
results	DECREASING

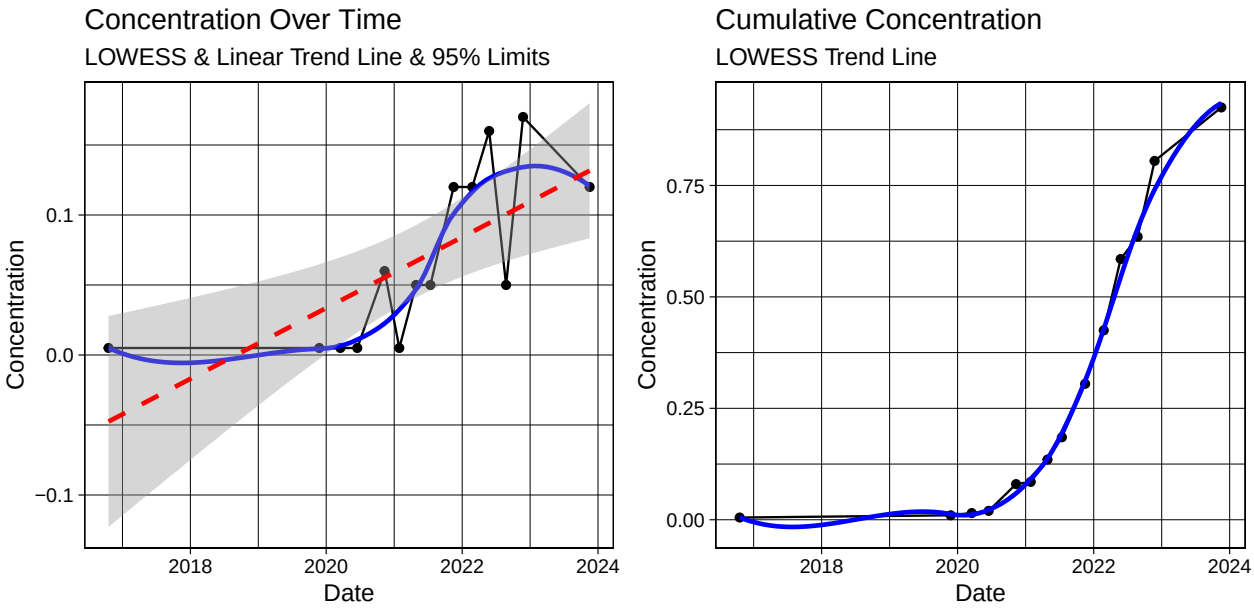
Report for ID : MW716 and Analyte : sum of PFHxS and PFOS





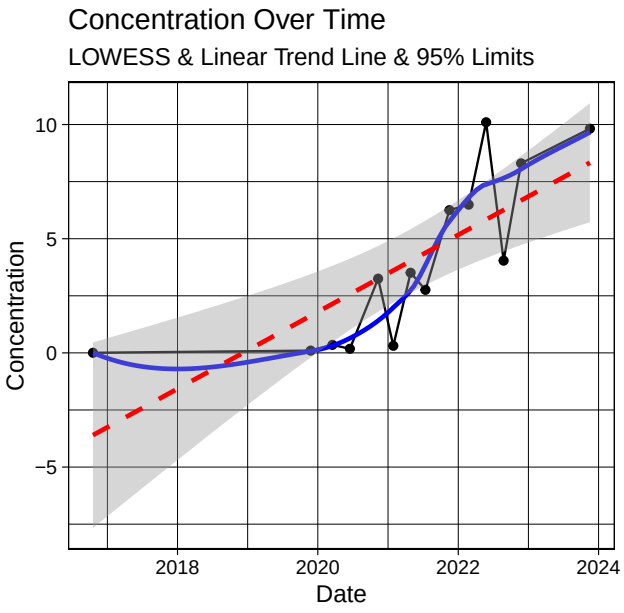
Kendall Trend Test Results Continuous	
n	14
z	3.18
p	0
S	57
varS	309.67
tau	0.69
mean	0.07
sd	0.06
cov	0.92
results	INCREASING

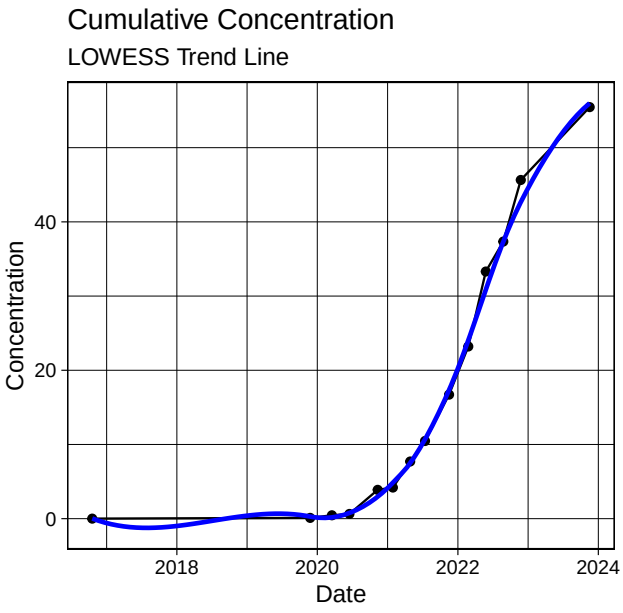
Report for ID : MW729 and Analyte : pfoa



Kendall Trend Test Results Continuous	
n	14
z	3.83
p	0
S	71
varS	333.67
tau	0.78
mean	3.96
sd	3.68
cov	0.93
results	INCREASING

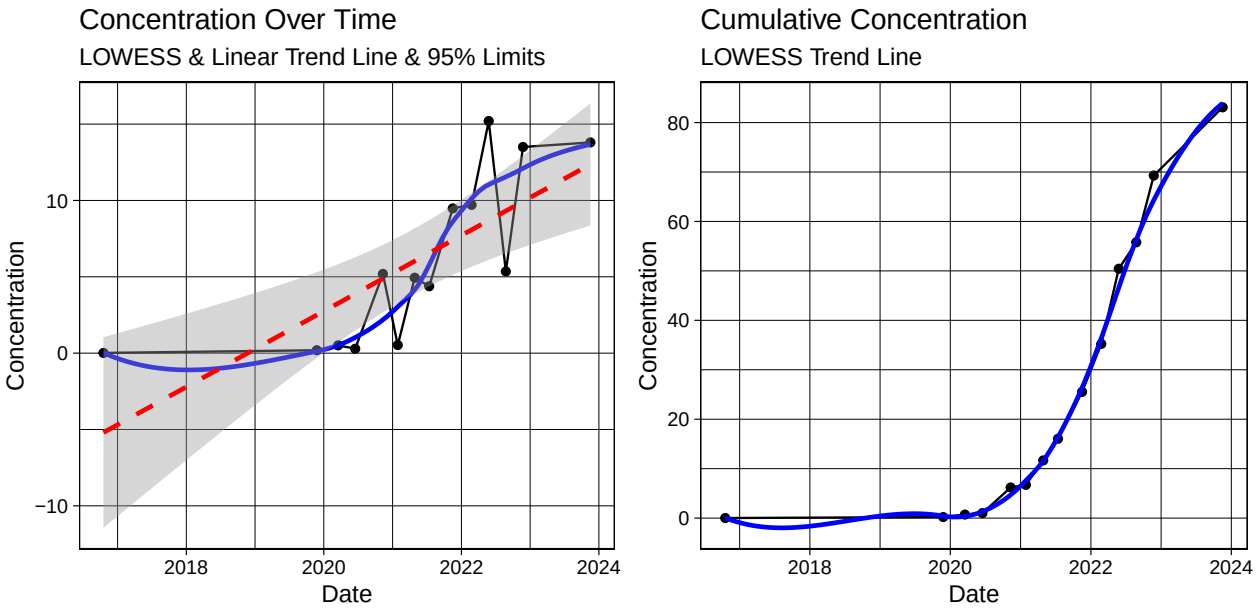
Report for ID : MW729 and Analyte : pfos





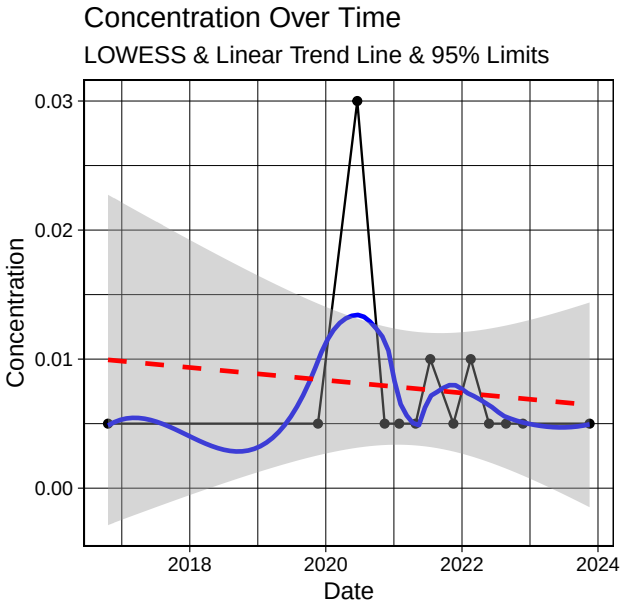
Kendall Trend Test Results Continuous	
n	14
z	3.83
p	0
S	71
varS	333.67
tau	0.78
mean	5.93
sd	5.51
cov	0.93
results	INCREASING

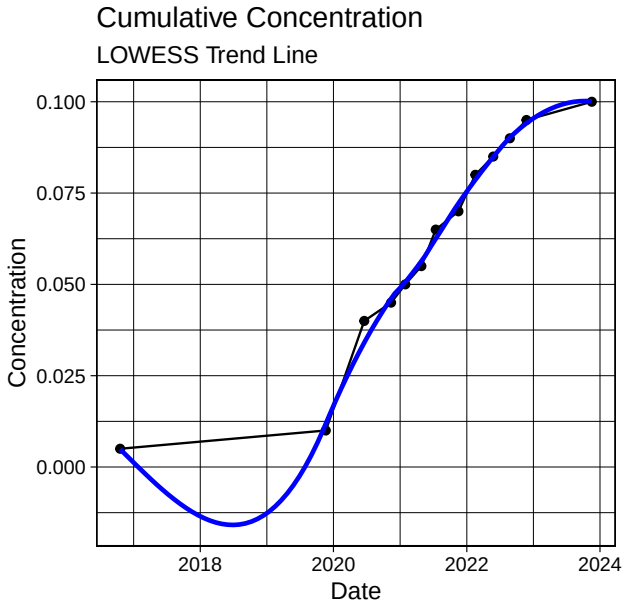
Report for ID : MW729 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	13
z	-0.42
p	0.68
S	-6
varS	142.67
tau	-0.12
mean	0.01
sd	0.01
cov	0.9
results	STABLE

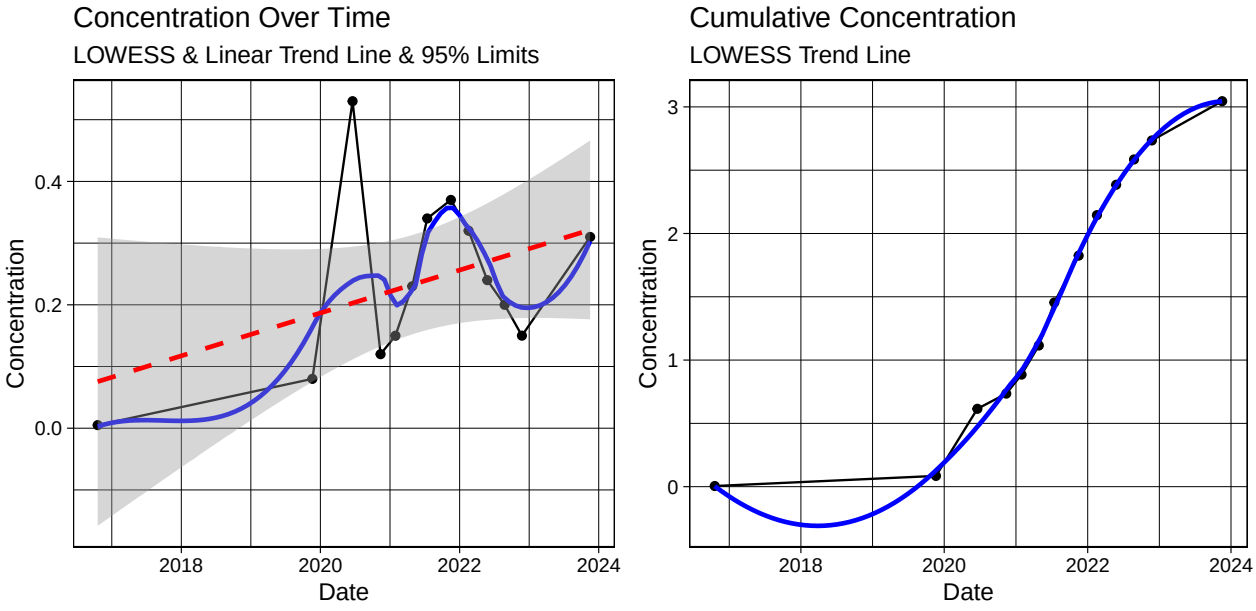
Report for ID : MW730 and Analyte : pfoa





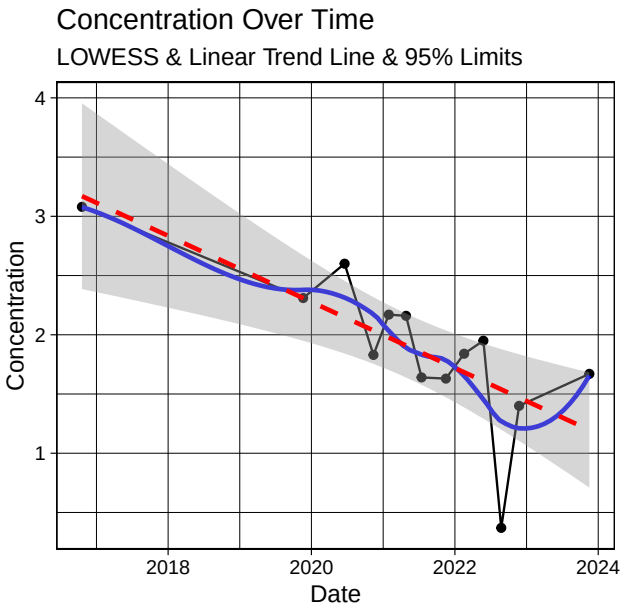
Kendall Trend Test Results Continuous	
n	13
z	1.1
p	0.27
S	19
varS	267.67
tau	0.25
mean	0.23
sd	0.14
cov	0.6
results	NO CLEAR TREND

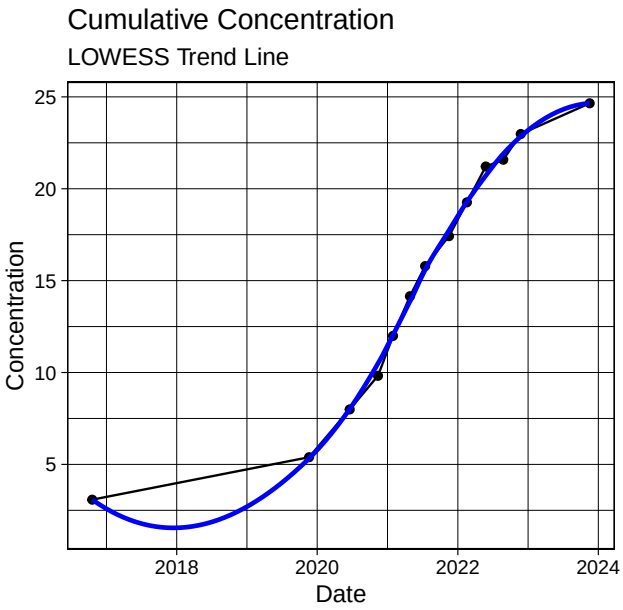
Report for ID : MW730 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	13
z	-2.87
p	0
S	-48
varS	268.67
tau	-0.62
mean	1.9
sd	0.64
cov	0.34
results	DECREASING

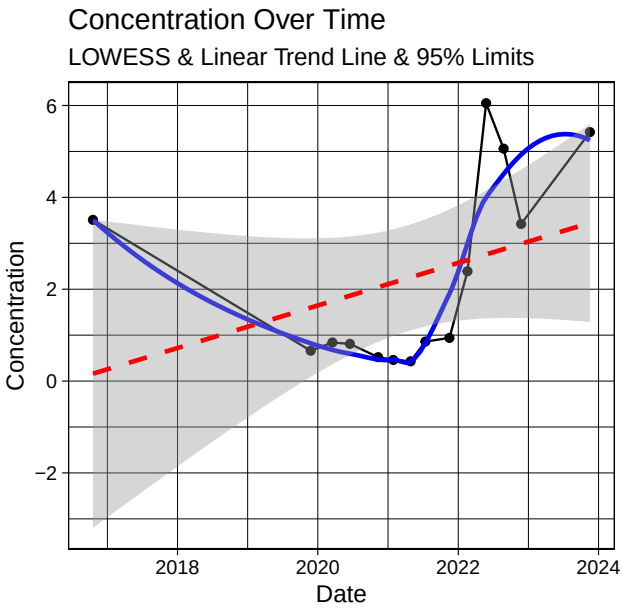
Report for ID : MW730 and Analyte : sum of PFHxS and PFOS

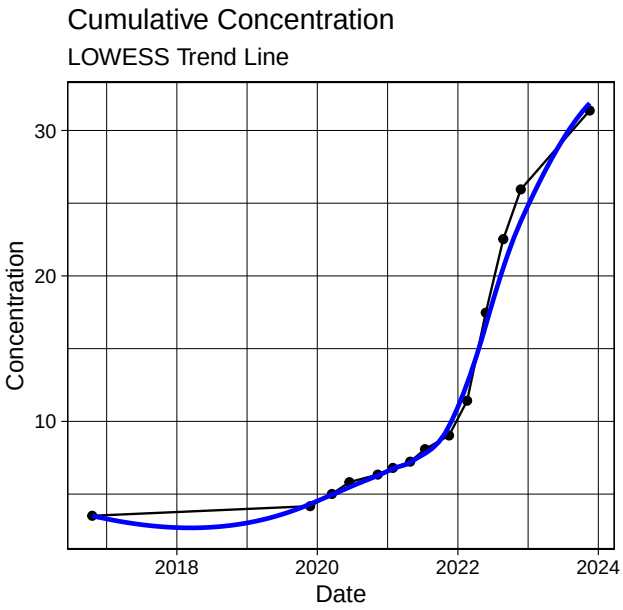




Kendall Trend Test Results Continuous	
n	14
z	1.97
p	0.05
S	37
varS	333.67
tau	0.41
mean	2.24
sd	2.06
cov	0.92
results	INCREASING

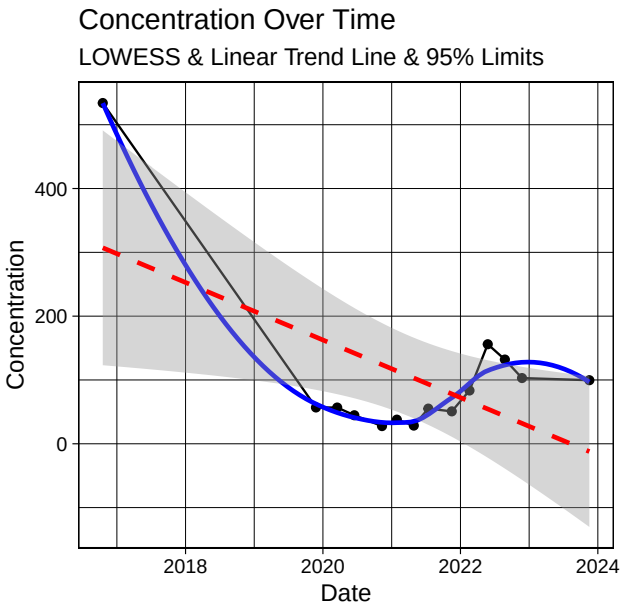
Report for ID : MW738 and Analyte : pfoa

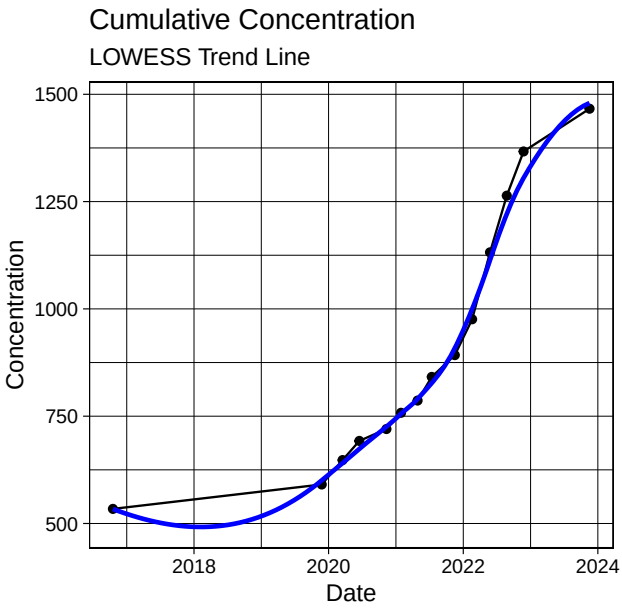




Kendall Trend Test Results Continuous	
n	14
z	0.88
p	0.38
S	17
varS	333.67
tau	0.19
mean	104.74
sd	129.47
cov	1.24
results	NO CLEAR TREND

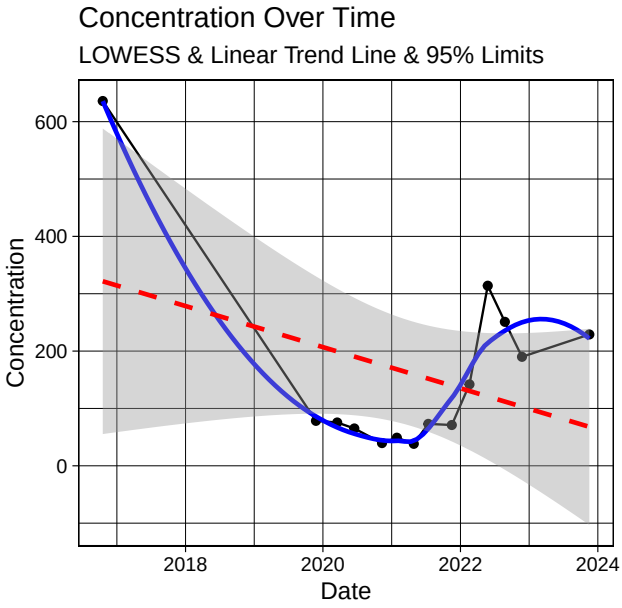
Report for ID : MW738 and Analyte : pfos

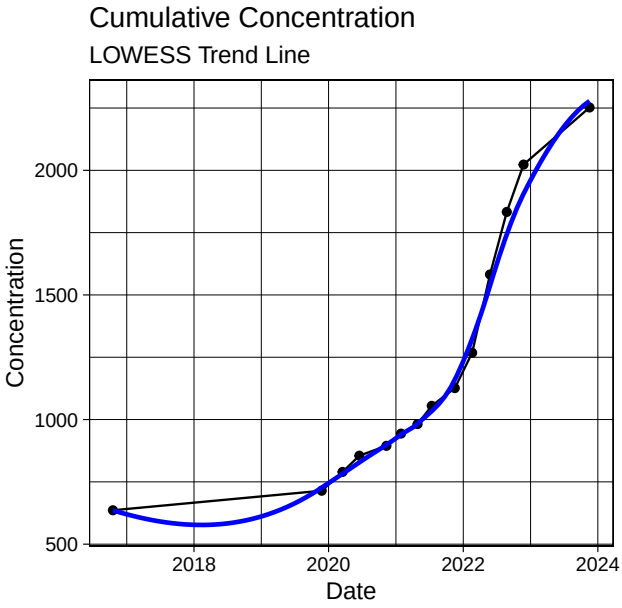




Kendall Trend Test Results Continuous	
n	14
z	0.88
p	0.38
S	17
varS	333.67
tau	0.19
mean	160.86
sd	162.77
cov	1.01
results	NO CLEAR TREND

Report for ID : MW738 and Analyte : sum of PFHxS and PFOS





Trend Report

Report Date & Time: 2024-02-09 01:30:06

Data File Name: South-eastern_Area_23_Open_UCL_Input_V1.csv

Report Title: Groundwater Trend Data_Southern_Eastern_Area_23

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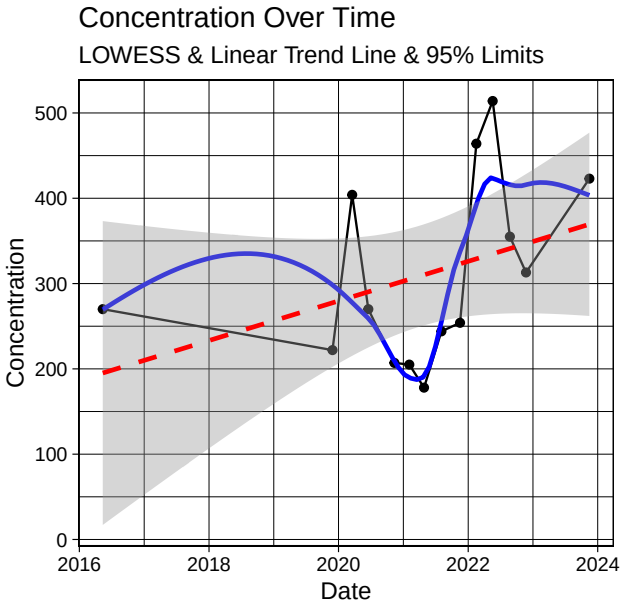
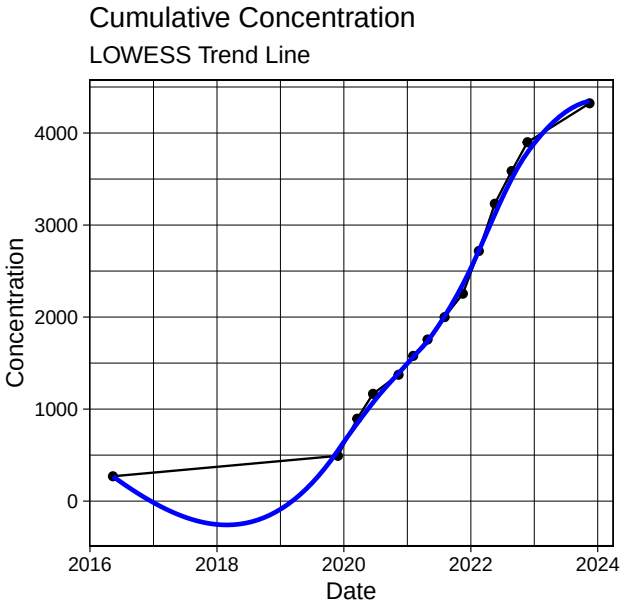
Kendall Trend Test Results Continuous	
n	14
z	1.37
p	0.17
S	26
varS	332.67
tau	0.29
mean	308.79
sd	106.14
cov	0.34
results	NO CLEAR TREND

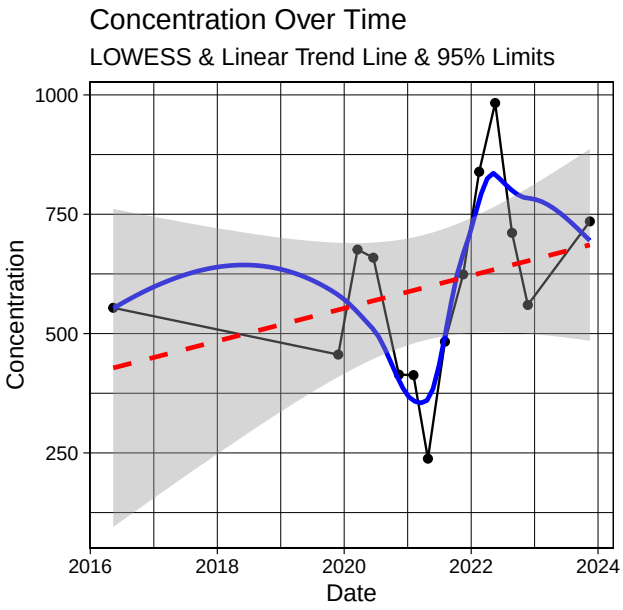
Report for ID : MW201 and Analyte : pfoa

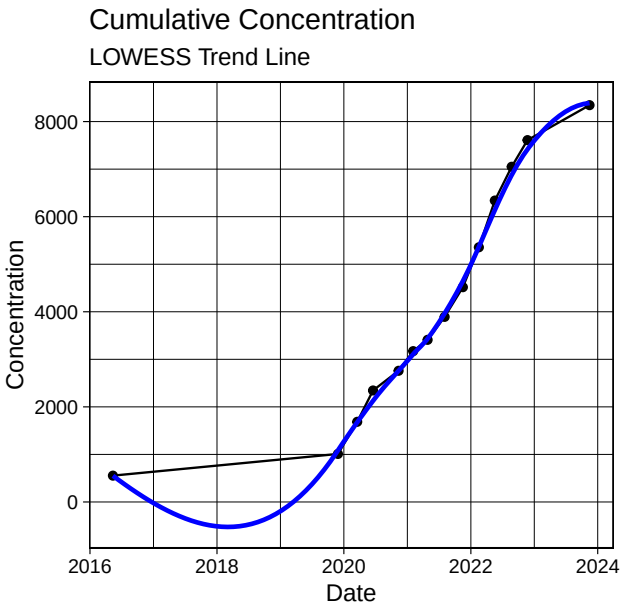




Kendall Trend Test Results Continuous	
n	14
z	1.42
p	0.15
S	27
varS	333.67
tau	0.3
mean	596.07
sd	192.7
cov	0.32
results	NO CLEAR TREND

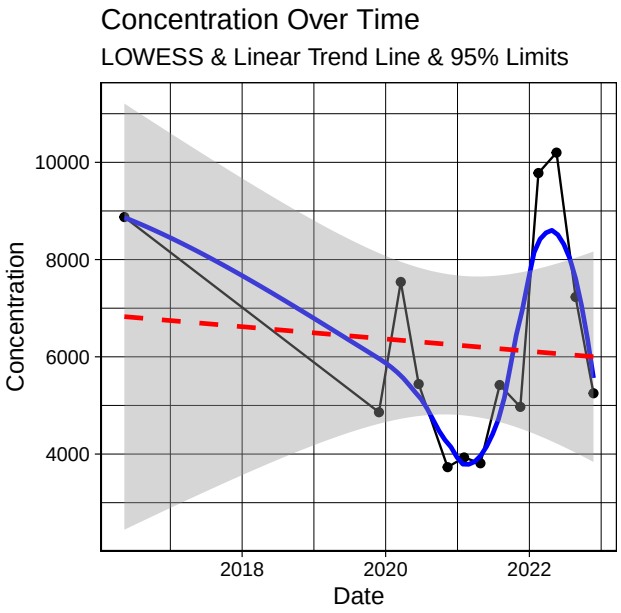
Report for ID : MW201 and Analyte : pfos

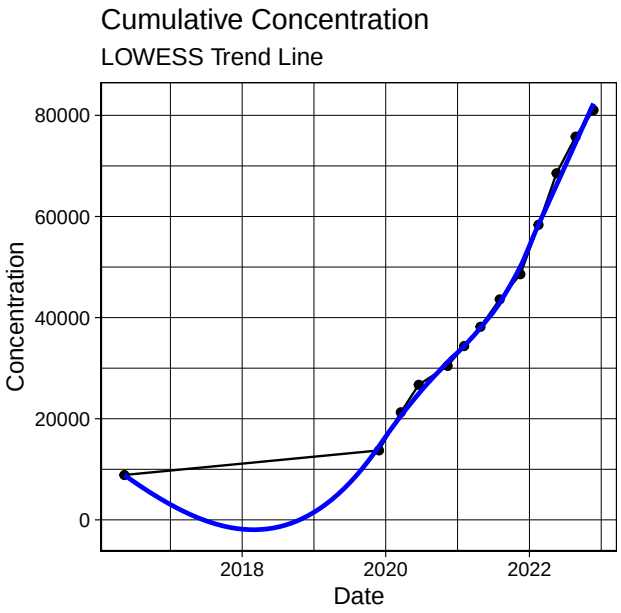




Kendall Trend Test Results Continuous	
n	13
z	0.43
p	0.67
S	8
varS	268.67
tau	0.1
mean	6233.38
sd	2257.79
cov	0.36
results	NO CLEAR TREND

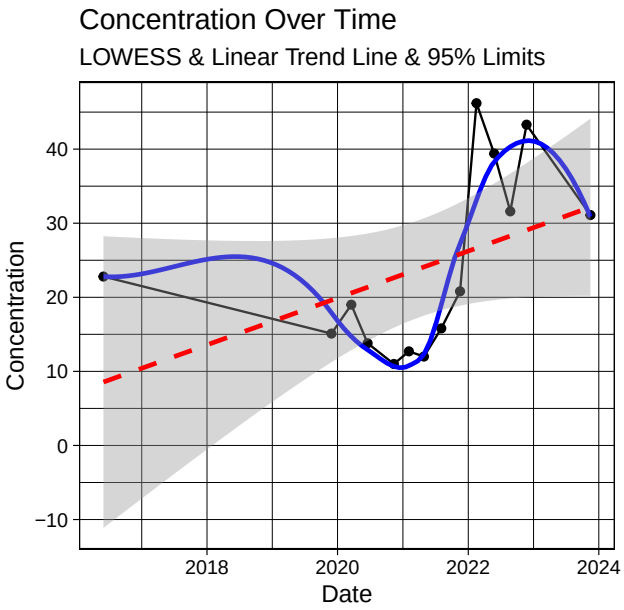
Report for ID : MW201 and Analyte : sum of PFHxS and PFOS

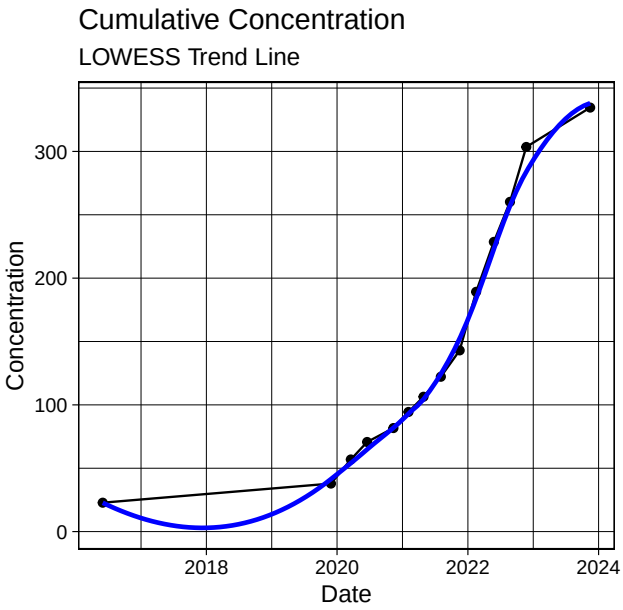




Kendall Trend Test Results Continuous	
n	14
z	1.75
p	0.08
S	33
varS	333.67
tau	0.36
mean	23.9
sd	12.21
cov	0.51
results	POSSIBLY INCREASING

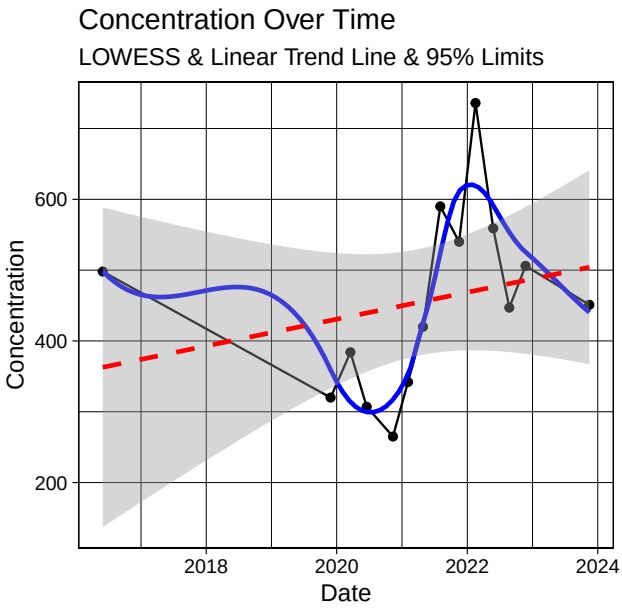
Report for ID : MW202 and Analyte : pfoa

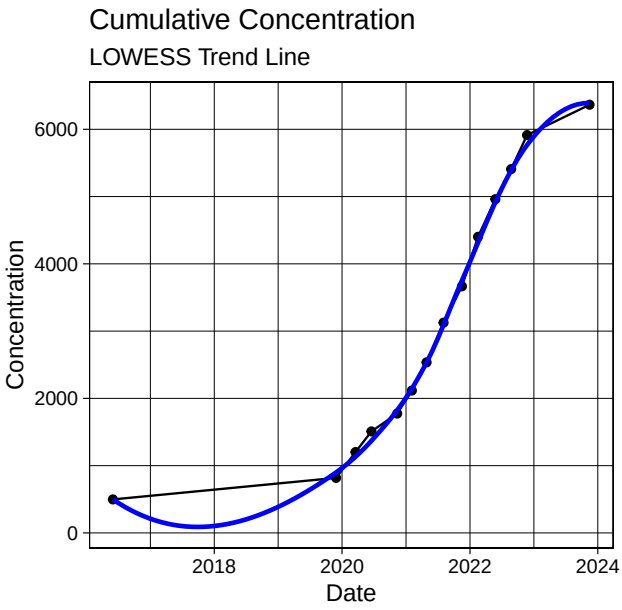




Kendall Trend Test Results Continuous	
n	14
z	1.64
p	0.1
S	31
varS	333.67
tau	0.34
mean	454.64
sd	128.61
cov	0.28
results	NO CLEAR TREND

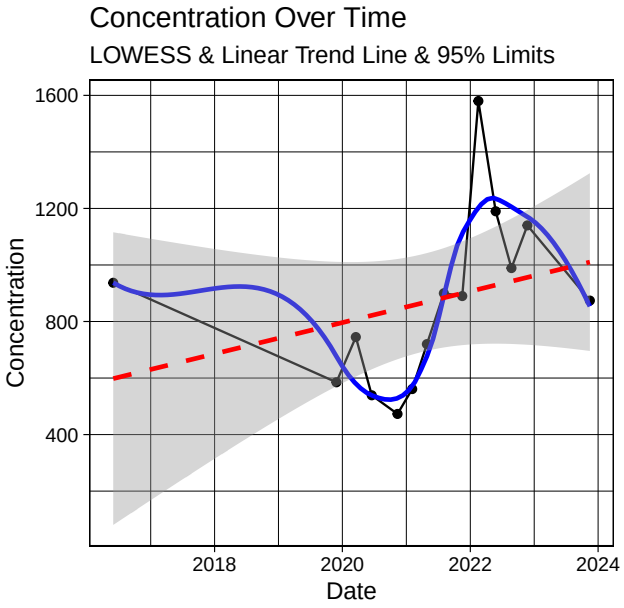
Report for ID : MW202 and Analyte : pfos

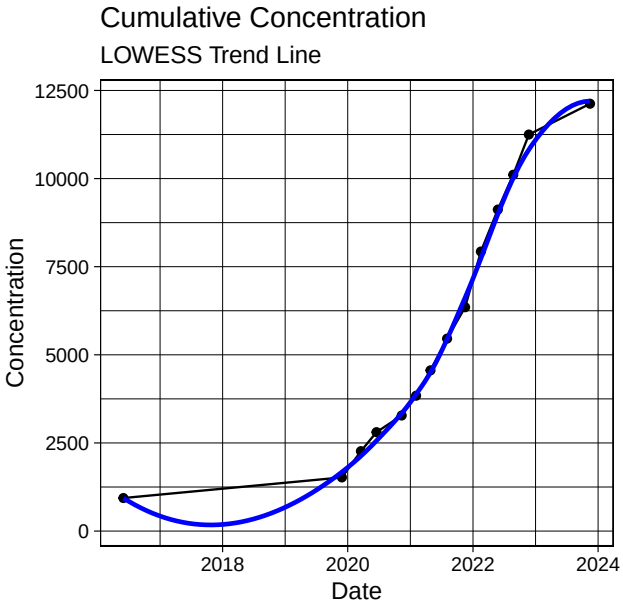




Kendall Trend Test Results Continuous	
n	14
z	1.75
p	0.08
S	33
varS	333.67
tau	0.36
mean	865.93
sd	301.42
cov	0.35
results	POSSIBLY INCREASING

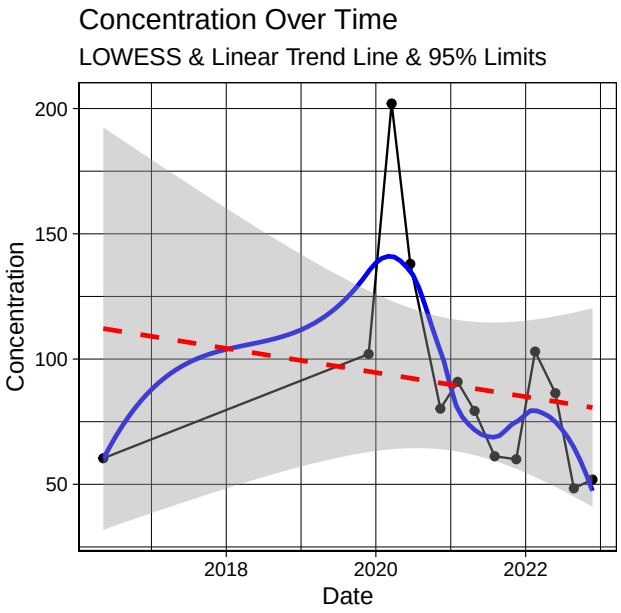
Report for ID : MW202 and Analyte : sum of PFHxS and PFOS

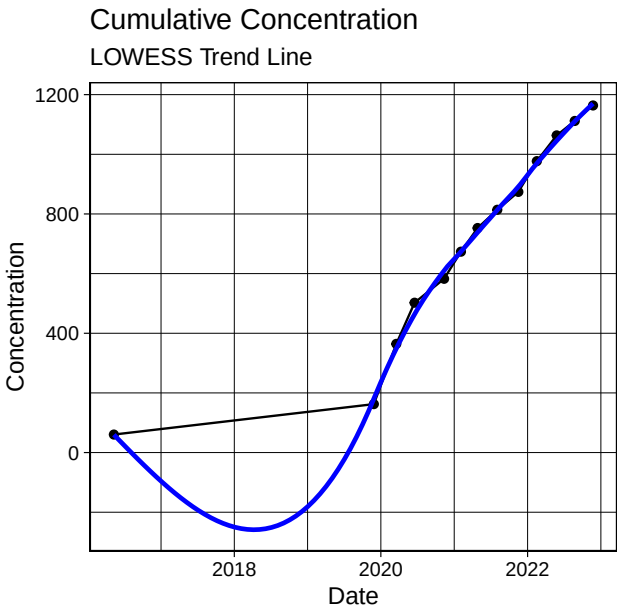




Kendall Trend Test Results Continuous	
n	13
z	-1.89
p	0.06
S	-32
varS	268.67
tau	-0.41
mean	89.52
sd	42
cov	0.47
results	POSSIBLY DECREASING

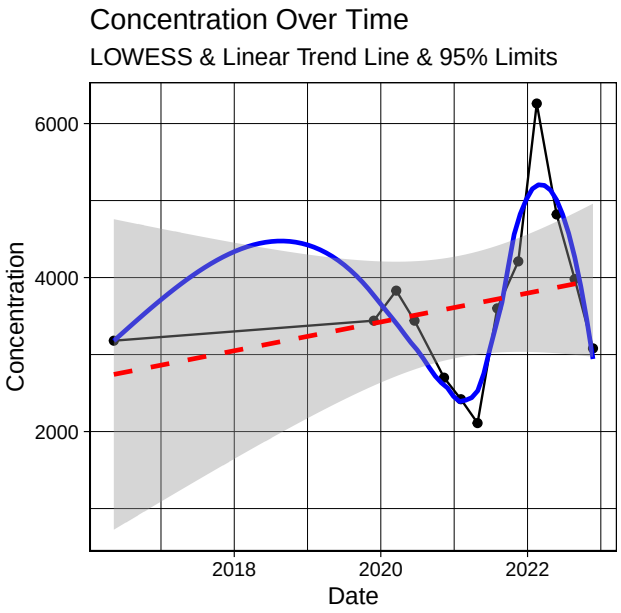
Report for ID : MW203 and Analyte : pfoa

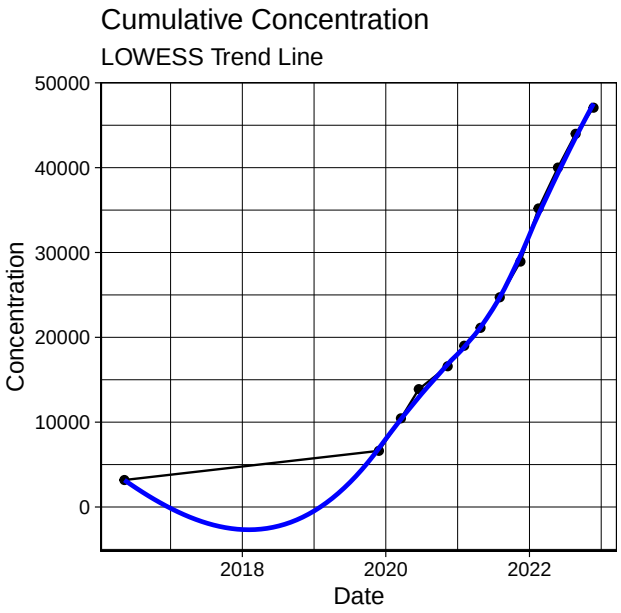




Kendall Trend Test Results Continuous	
n	13
z	0.98
p	0.33
S	17
varS	267.67
tau	0.22
mean	3620.77
sd	1081.98
cov	0.3
results	NO CLEAR TREND

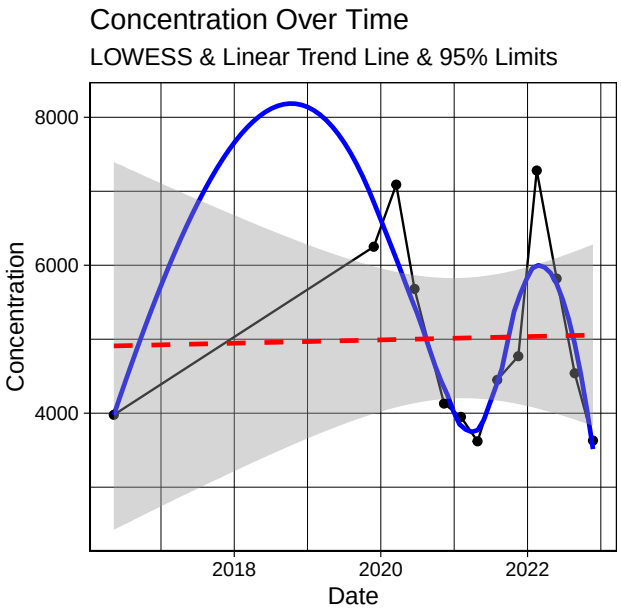
Report for ID : MW203 and Analyte : pfos

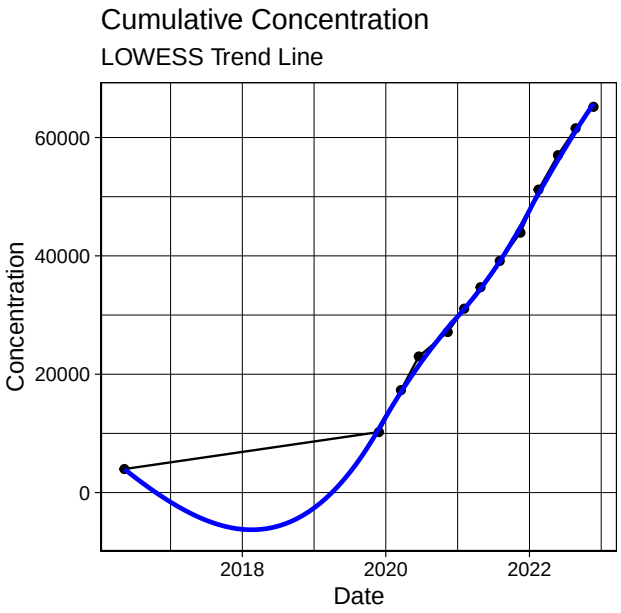




Kendall Trend Test Results Continuous	
n	13
z	-0.31
p	0.76
S	-6
varS	268.67
tau	-0.08
mean	5014.46
sd	1275.19
cov	0.25
results	STABLE

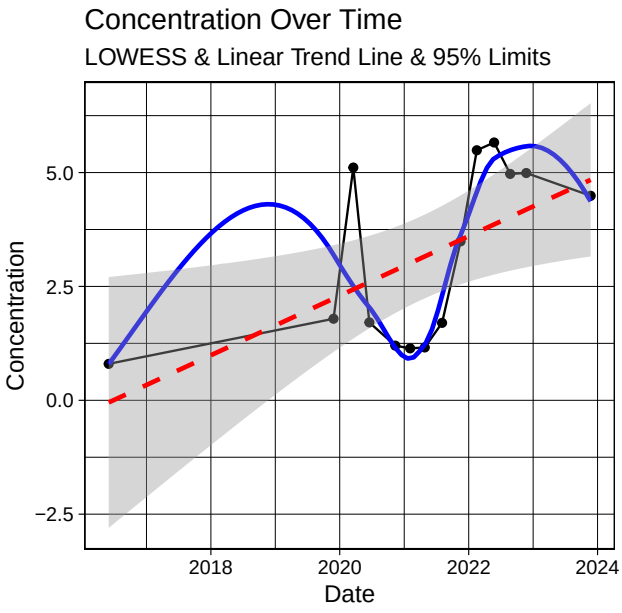
Report for ID : MW203 and Analyte : sum of PFHxS and PFOS

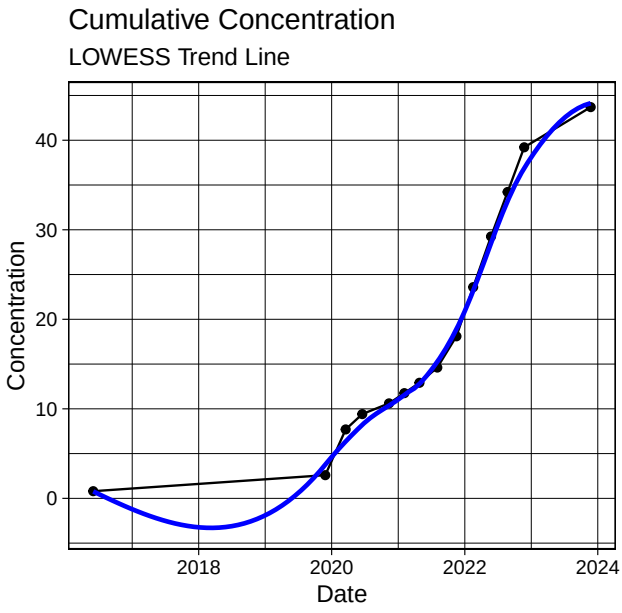




Kendall Trend Test Results Continuous	
n	14
z	1.86
p	0.06
S	35
varS	333.67
tau	0.38
mean	3.12
sd	1.91
cov	0.61
results	POSSIBLY INCREASING

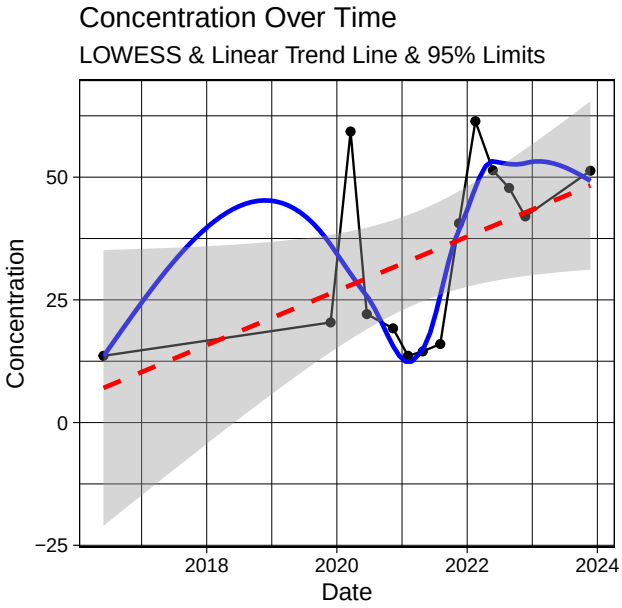
Report for ID : MW323 and Analyte : pfoa

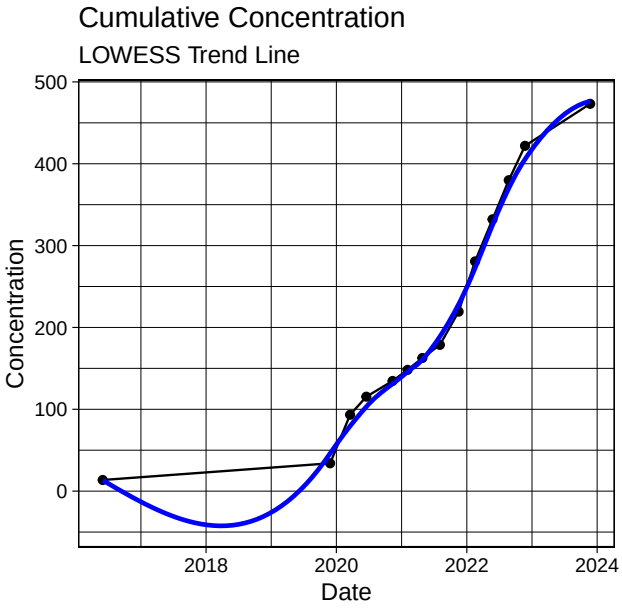




Kendall Trend Test Results Continuous	
n	14
z	1.7
p	0.09
S	32
varS	332.67
tau	0.35
mean	33.8
sd	18.34
cov	0.54
results	POSSIBLY INCREASING

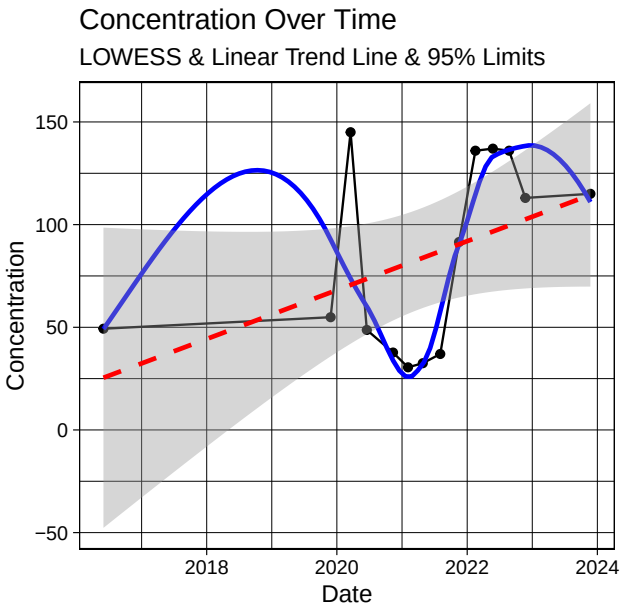
Report for ID : MW323 and Analyte : pfos

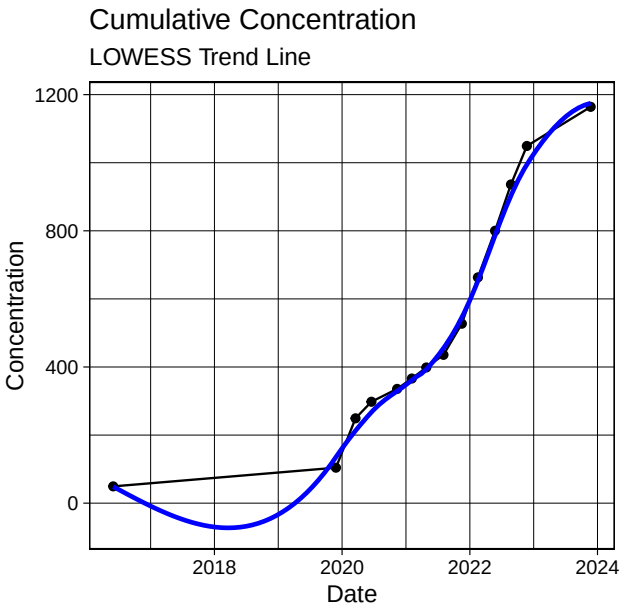




Kendall Trend Test Results Continuous	
n	14
z	1.04
p	0.3
S	20
varS	332.67
tau	0.22
mean	83.15
sd	45.53
cov	0.55
results	NO CLEAR TREND

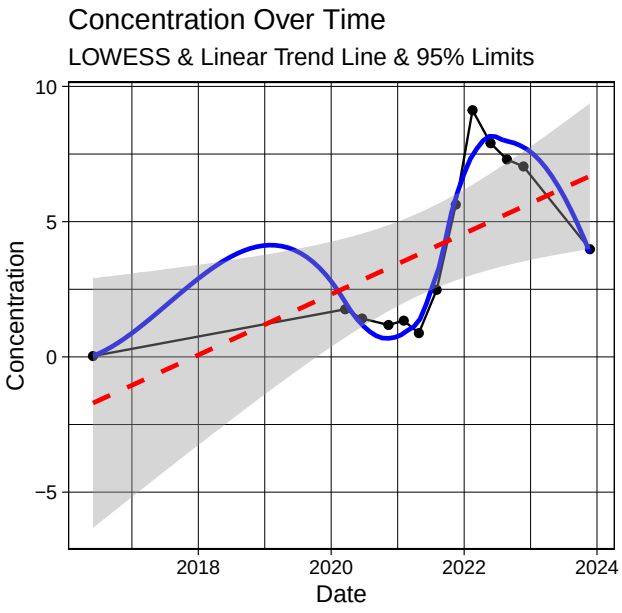
Report for ID : MW323 and Analyte : sum of PFHxS and PFOS

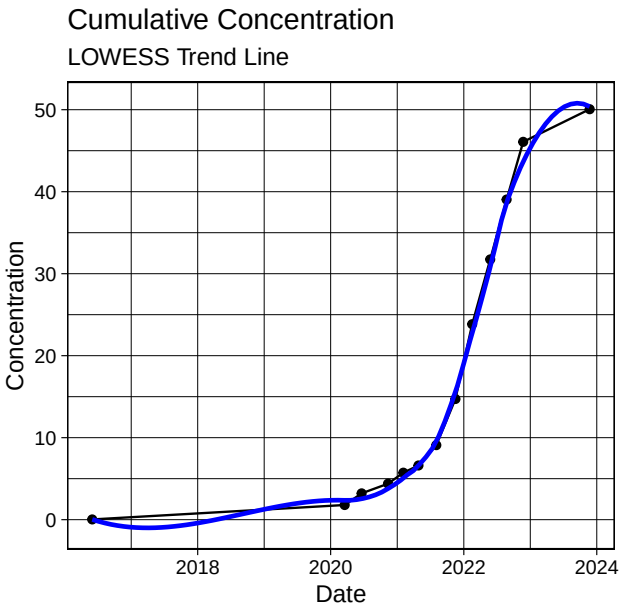




Kendall Trend Test Results Continuous	
n	13
z	2.26
p	0.02
S	38
varS	268.67
tau	0.49
mean	3.85
sd	3.14
cov	0.82
results	INCREASING

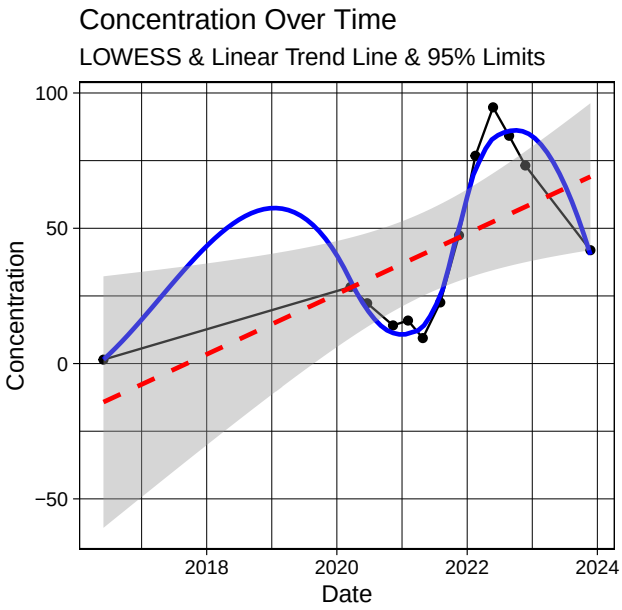
Report for ID : MW324 and Analyte : pfoa

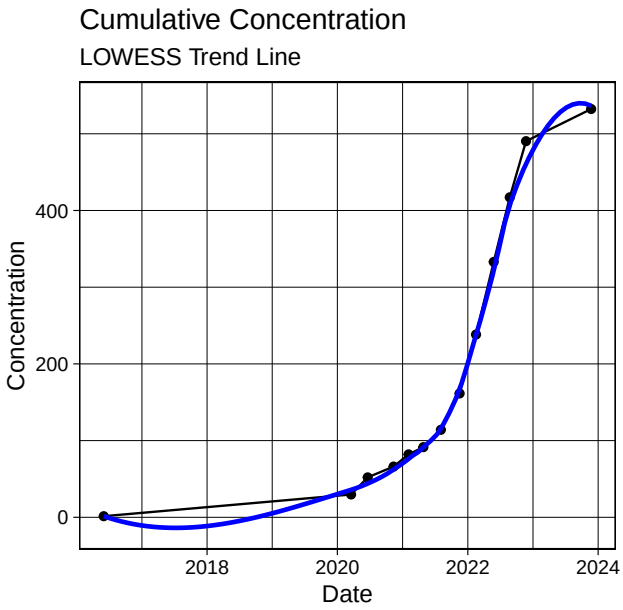




Kendall Trend Test Results Continuous	
n	13
z	2.38
p	0.02
S	40
varS	268.67
tau	0.51
mean	40.94
sd	31.46
cov	0.77
results	INCREASING

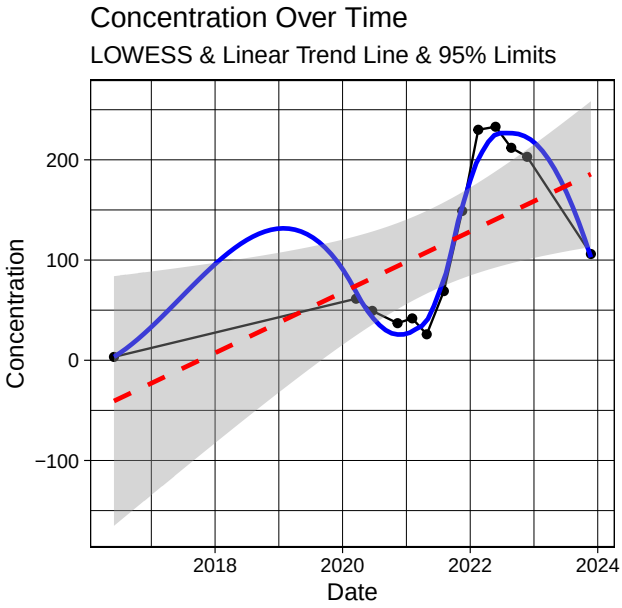
Report for ID : MW324 and Analyte : pfos

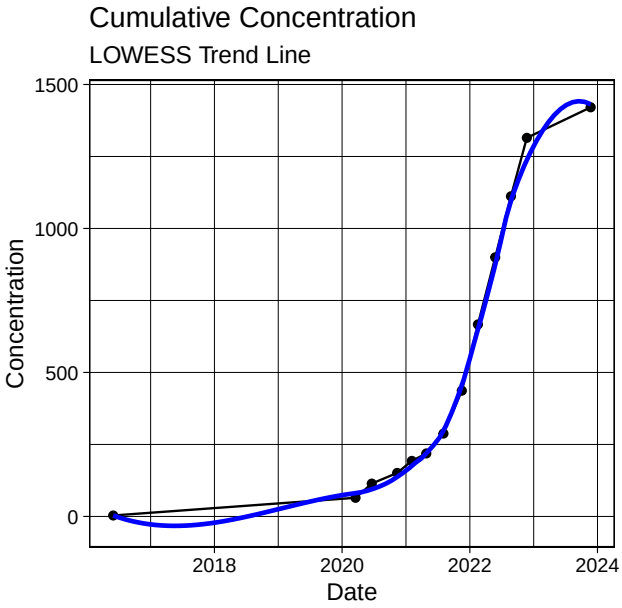




Kendall Trend Test Results Continuous	
n	13
z	2.38
p	0.02
S	40
varS	268.67
tau	0.51
mean	109.29
sd	84.79
cov	0.78
results	INCREASING

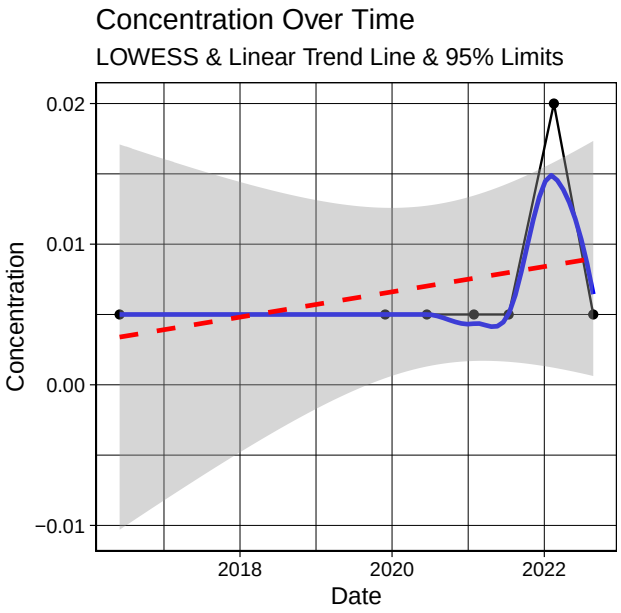
Report for ID : MW324 and Analyte : sum of PFHxS and PFOS

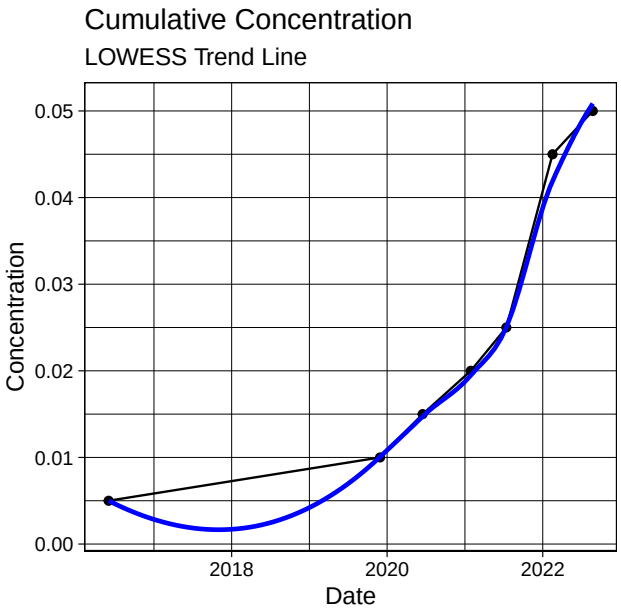




Kendall Trend Test Results Continuous	
n	7
z	0.75
p	0.45
S	4
varS	16
tau	0.36
mean	0.01
sd	0.01
cov	0.79
results	NO CLEAR TREND

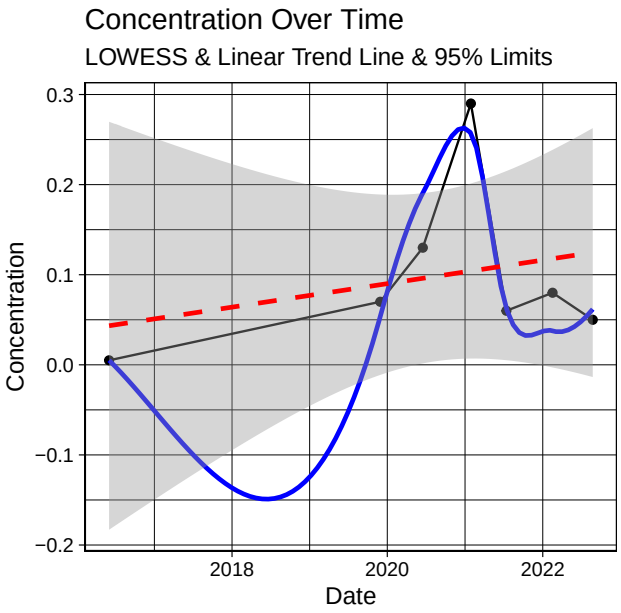
Report for ID : MW615 and Analyte : pfoa

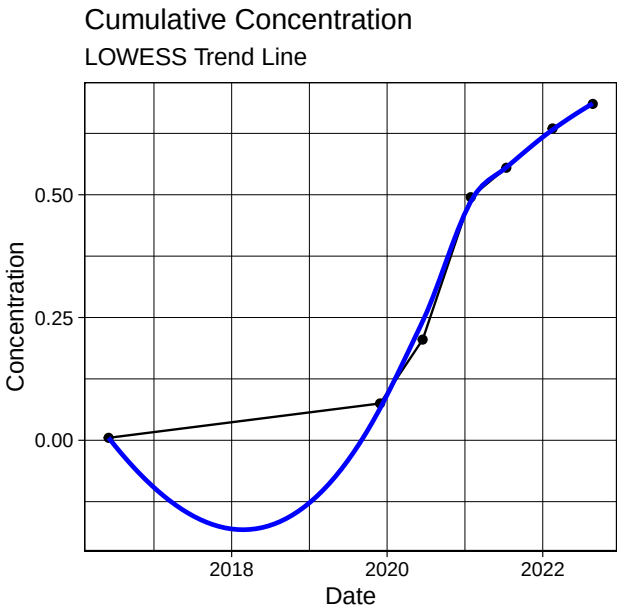




Kendall Trend Test Results Continuous	
n	7
z	0
p	1
S	1
varS	44.33
tau	0.05
mean	0.1
sd	0.09
cov	0.95
results	NO CLEAR TREND

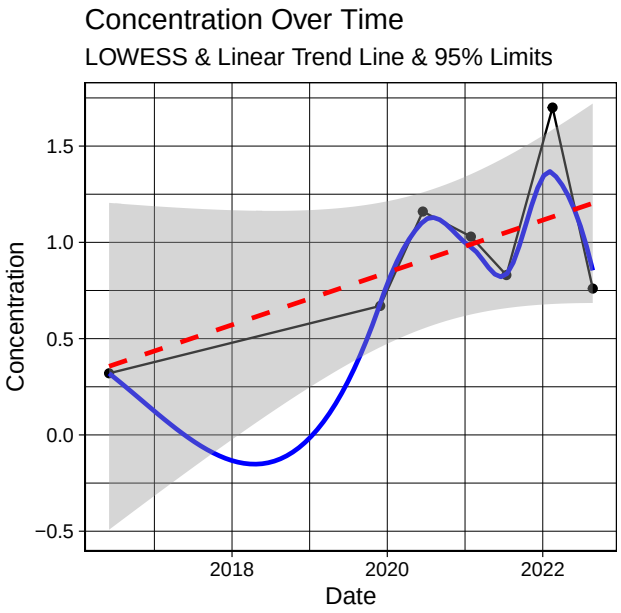
Report for ID : MW615 and Analyte : pfos

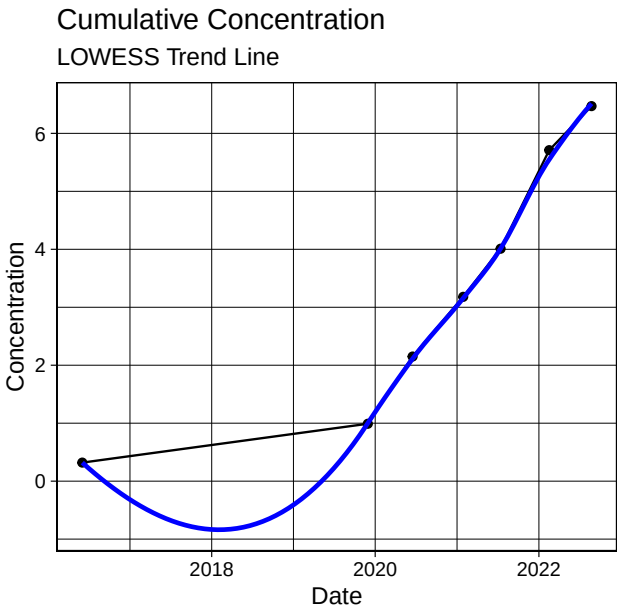




Kendall Trend Test Results Continuous	
n	7
z	0.9
p	0.37
S	7
varS	44.33
tau	0.33
mean	0.92
sd	0.43
cov	0.47
results	NO CLEAR TREND

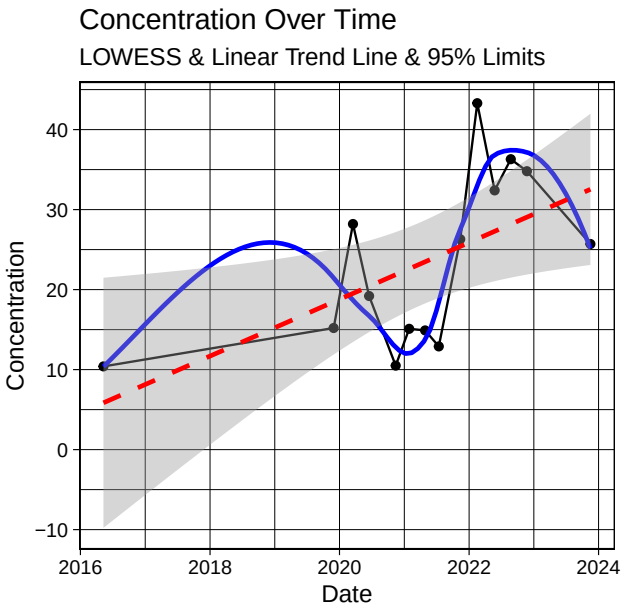
Report for ID : MW615 and Analyte : sum of PFHxS and PFOS

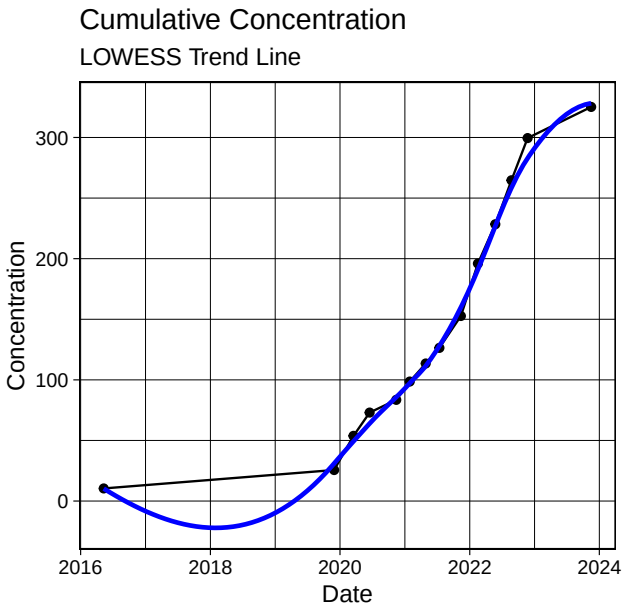




Kendall Trend Test Results Continuous	
n	14
z	1.97
p	0.05
S	37
varS	333.67
tau	0.41
mean	23.23
sd	10.67
cov	0.46
results	INCREASING

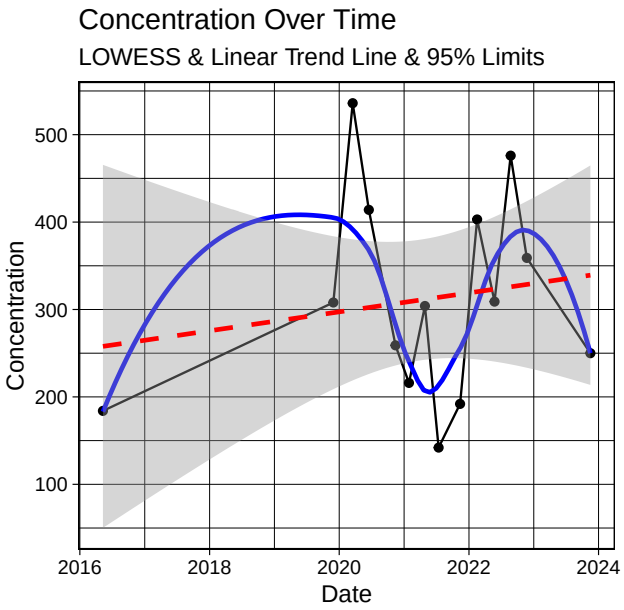
Report for ID : MW616 and Analyte : pfoa

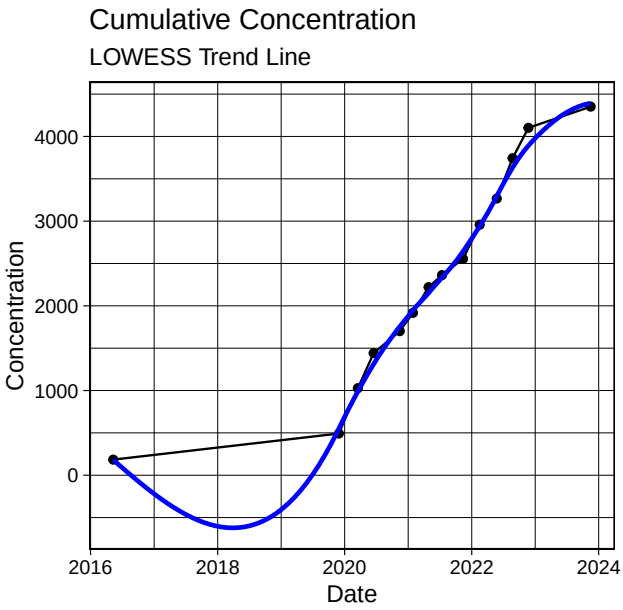




Kendall Trend Test Results Continuous	
n	14
z	0.22
p	0.83
S	5
varS	333.67
tau	0.05
mean	310.86
sd	115.56
cov	0.37
results	NO CLEAR TREND

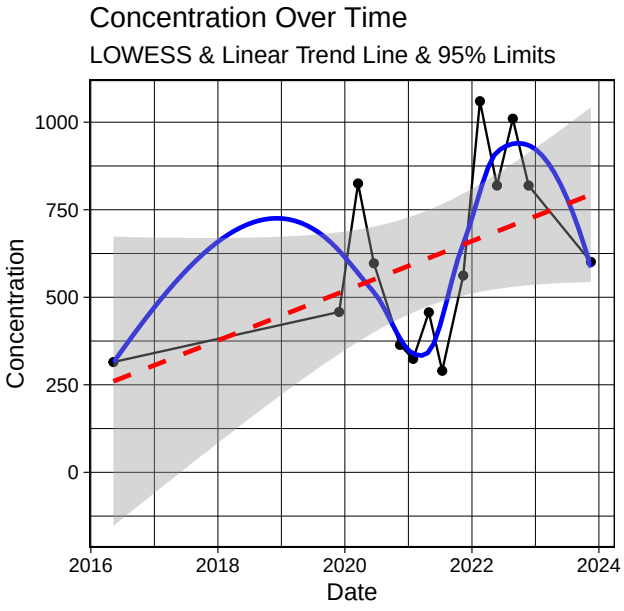
Report for ID : MW616 and Analyte : pfos

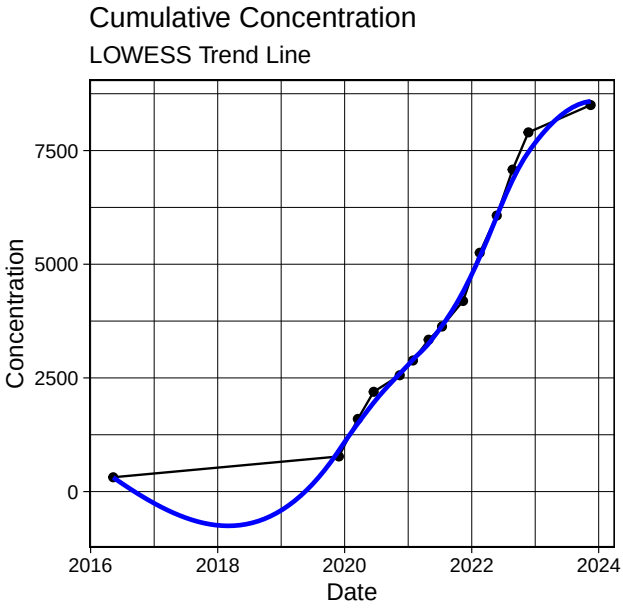




Kendall Trend Test Results Continuous	
n	14
z	1.48
p	0.14
S	28
varS	332.67
tau	0.31
mean	607.21
sd	259.7
cov	0.43
results	NO CLEAR TREND

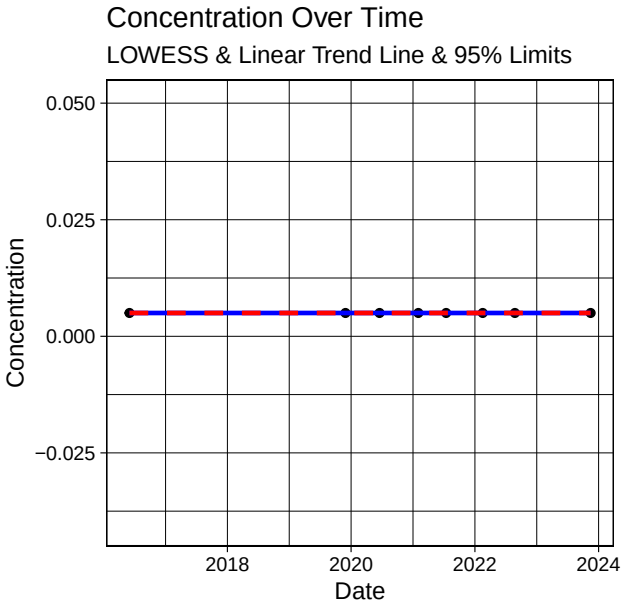
Report for ID : MW616 and Analyte : sum of PFHxS and PFOS

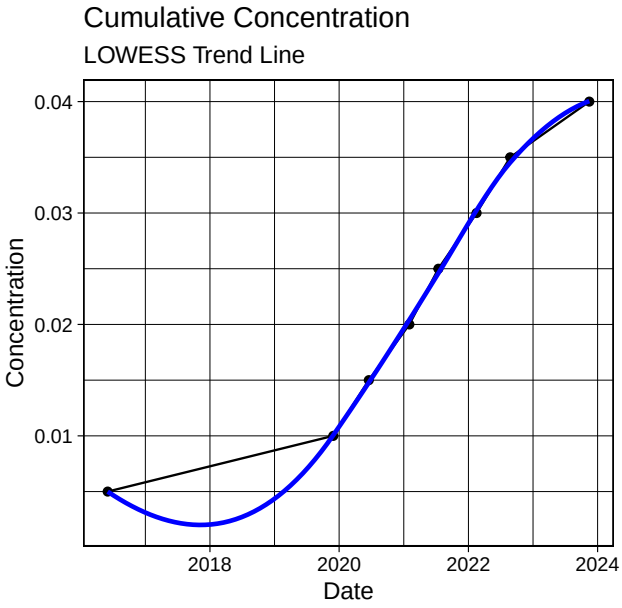




Kendall Trend Test Results Continuous	
n	8
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

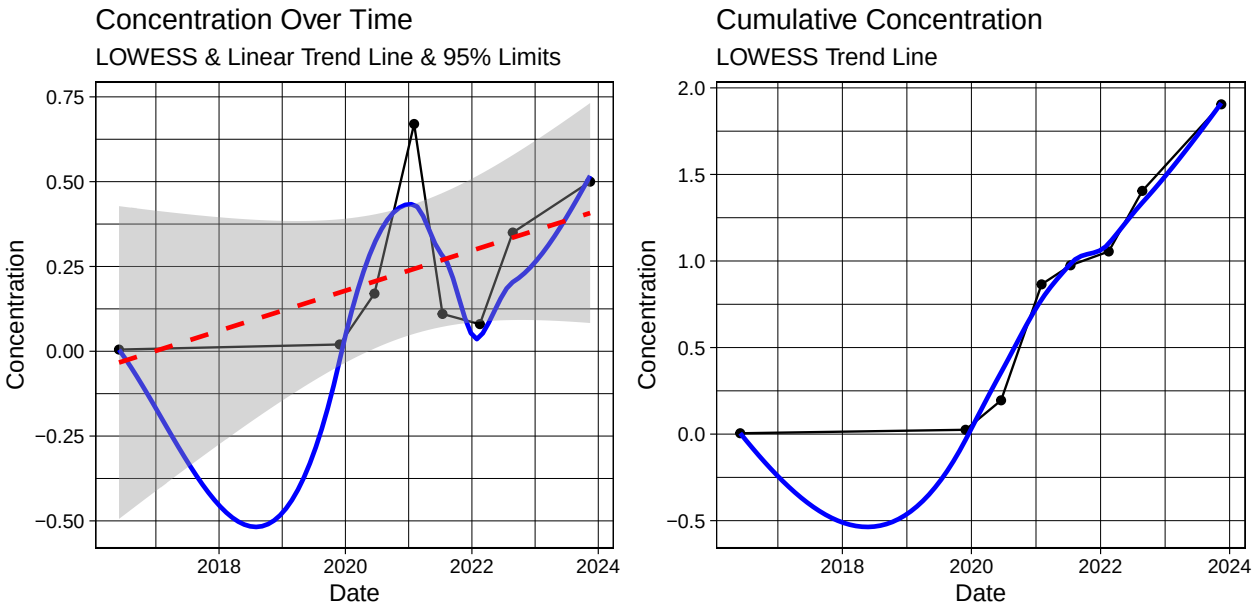
Report for ID : MW617 and Analyte : pfoa





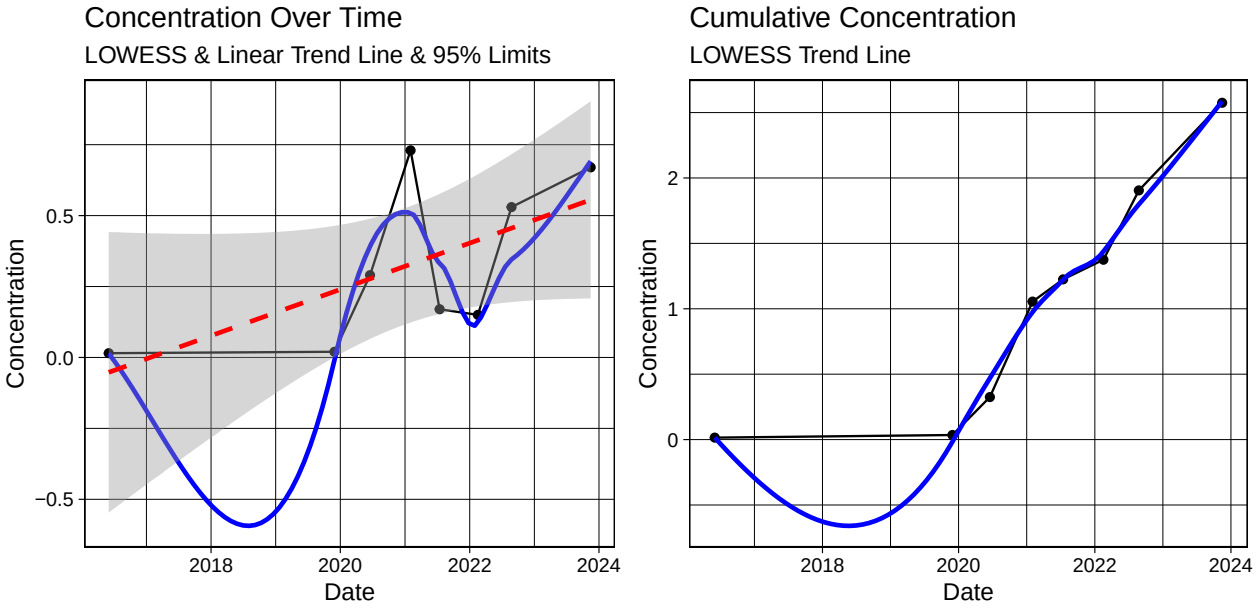
Kendall Trend Test Results Continuous	
n	8
z	1.61
p	0.11
S	14
varS	65.33
tau	0.5
mean	0.24
sd	0.24
cov	1.02
results	NO CLEAR TREND

Report for ID : MW617 and Analyte : pfos



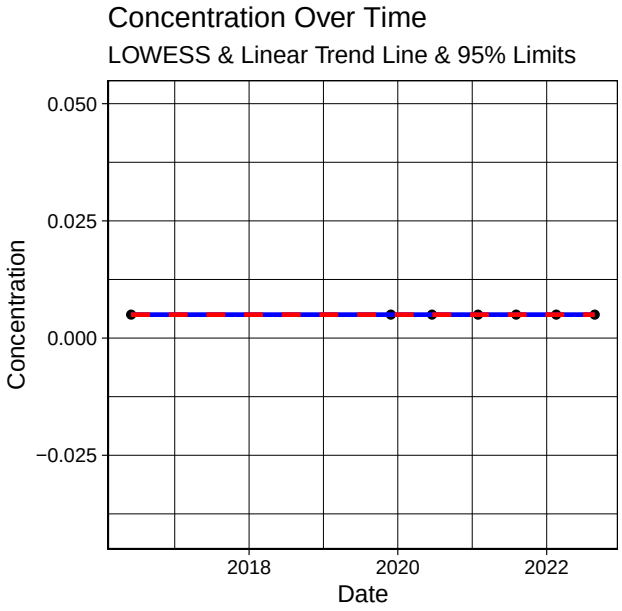
Kendall Trend Test Results Continuous	
n	8
z	1.61
p	0.11
S	14
varS	65.33
tau	0.5
mean	0.32
sd	0.29
cov	0.89
results	NO CLEAR TREND

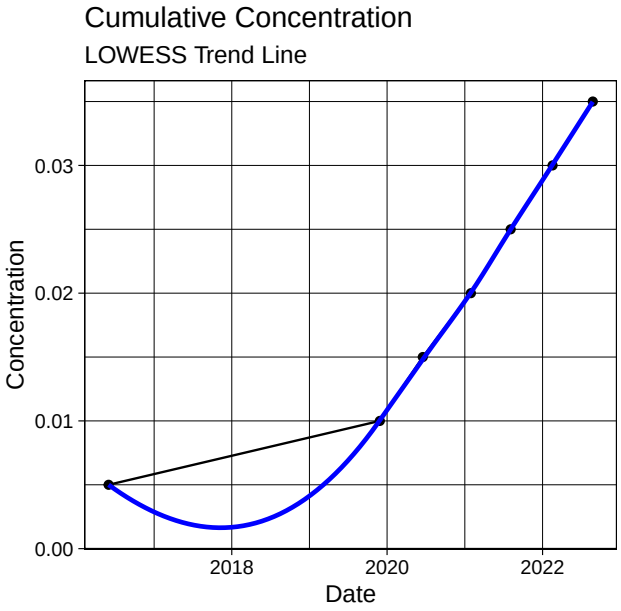
Report for ID : MW617 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	7
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

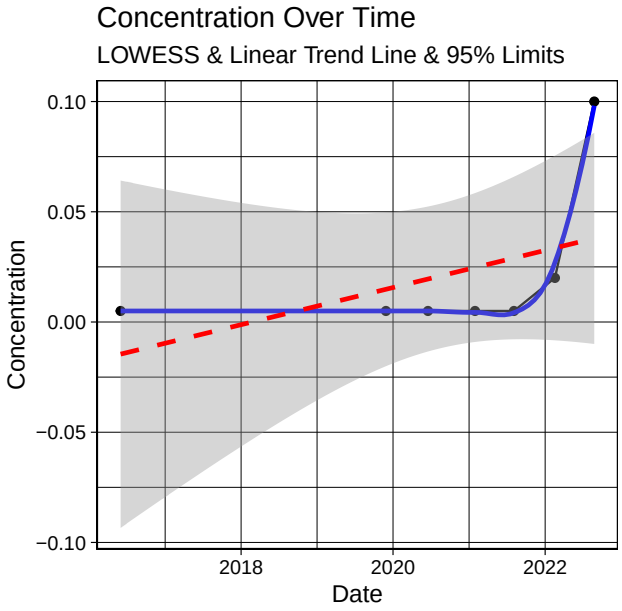
Report for ID : MW619 and Analyte : pfoa

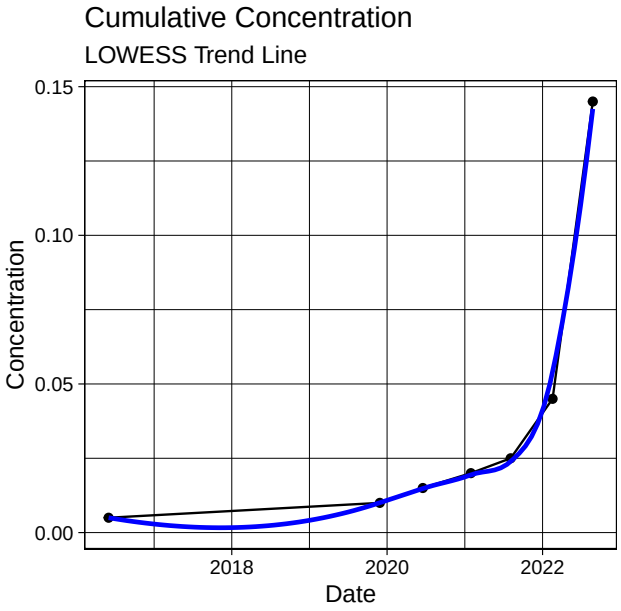




Kendall Trend Test Results Continuous	
n	7
z	1.9
p	0.06
S	11
varS	27.67
tau	0.72
mean	0.02
sd	0.04
cov	1.71
results	POSSIBLY INCREASING

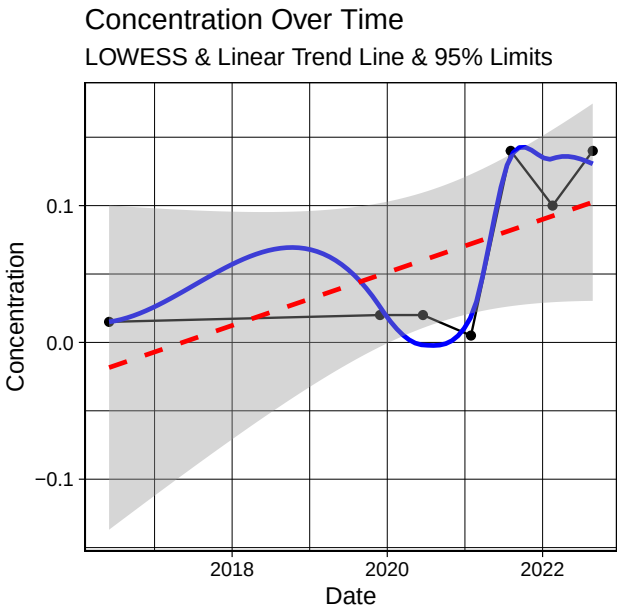
Report for ID : MW619 and Analyte : pfos

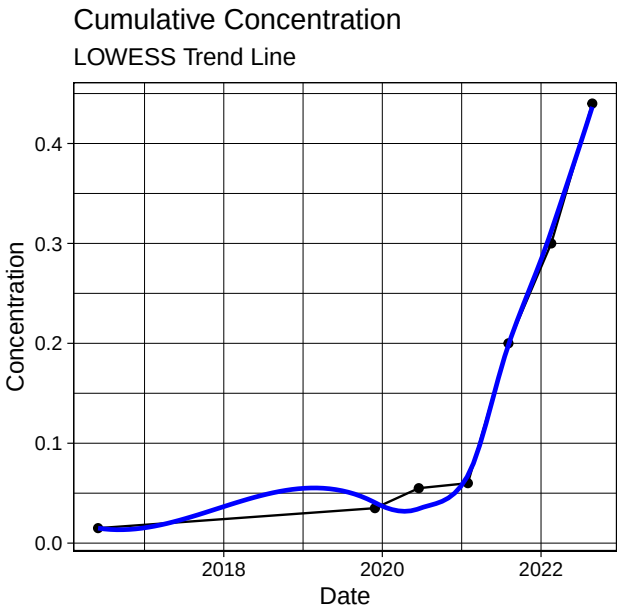




Kendall Trend Test Results Continuous	
n	7
z	1.54
p	0.12
S	11
varS	42.33
tau	0.55
mean	0.06
sd	0.06
cov	0.98
results	NO CLEAR TREND

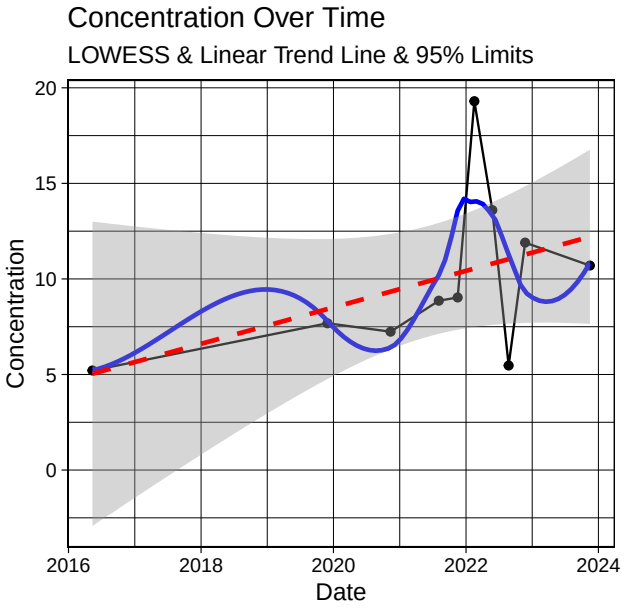
Report for ID : MW619 and Analyte : sum of PFHxS and PFOS

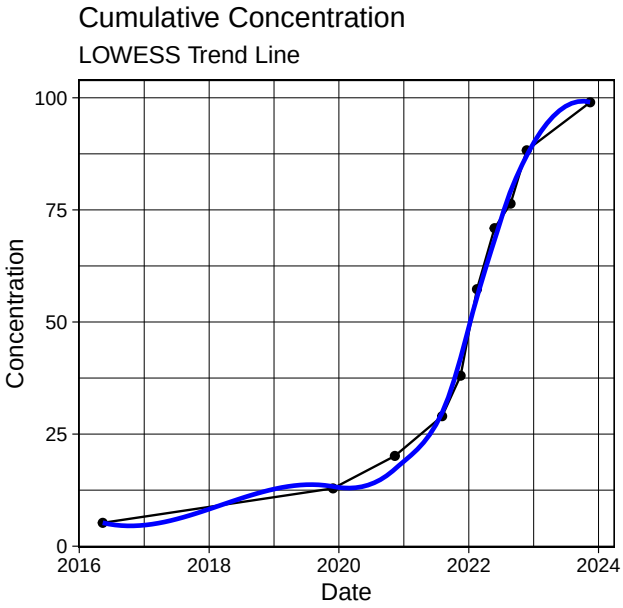




Kendall Trend Test Results Continuous	
n	10
z	1.61
p	0.11
S	19
varS	125
tau	0.42
mean	9.9
sd	4.24
cov	0.43
results	NO CLEAR TREND

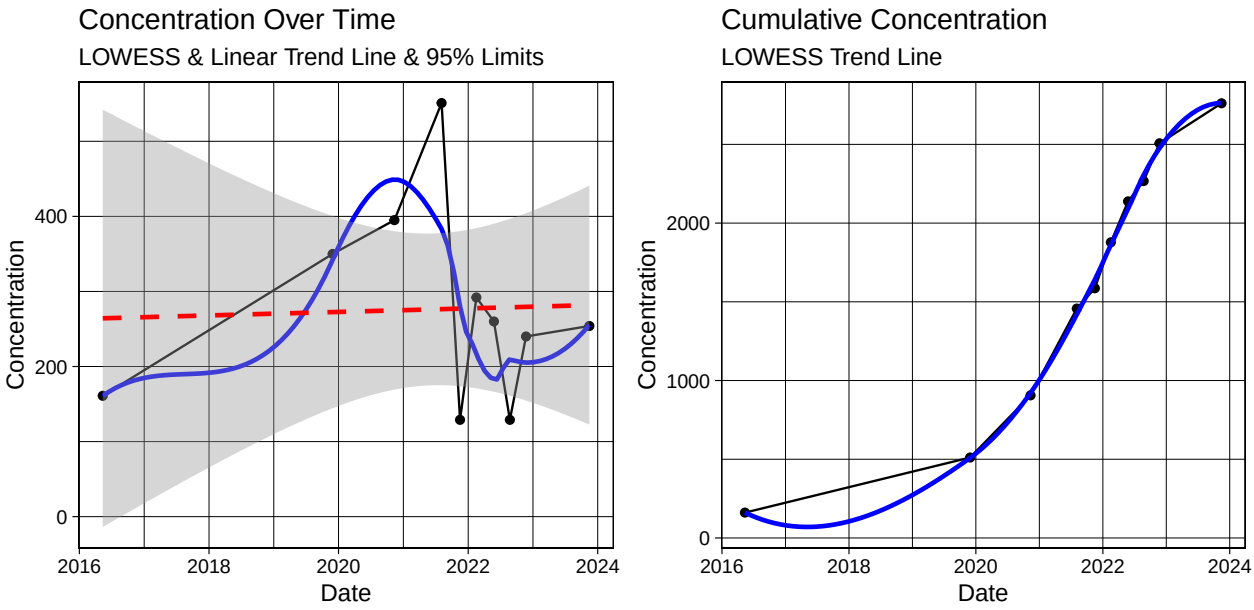
Report for ID : MW622 and Analyte : pfoa





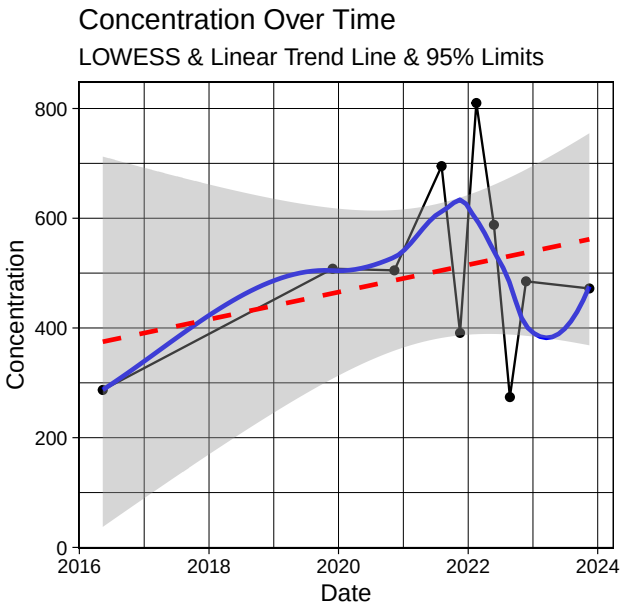
Kendall Trend Test Results Continuous	
n	10
z	-0.81
p	0.42
S	-10
varS	124
tau	-0.22
mean	276.1
sd	130.81
cov	0.47
results	STABLE

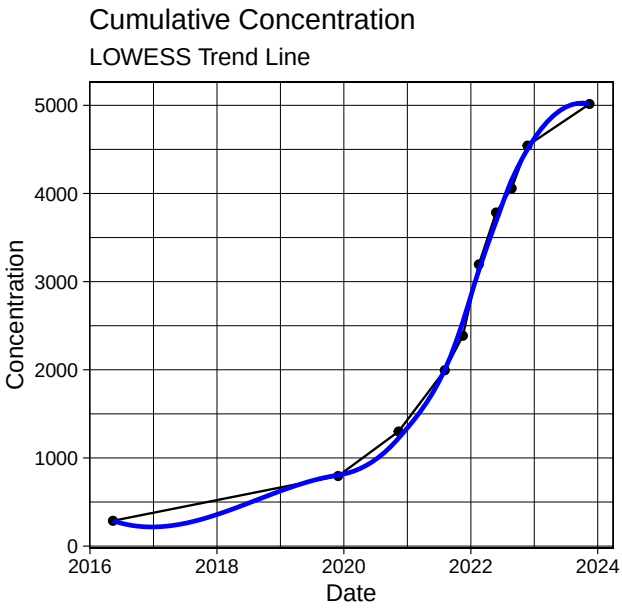
Report for ID : MW622 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	10
z	-0.18
p	0.86
S	-3
varS	125
tau	-0.07
mean	501.5
sd	167.09
cov	0.33
results	STABLE

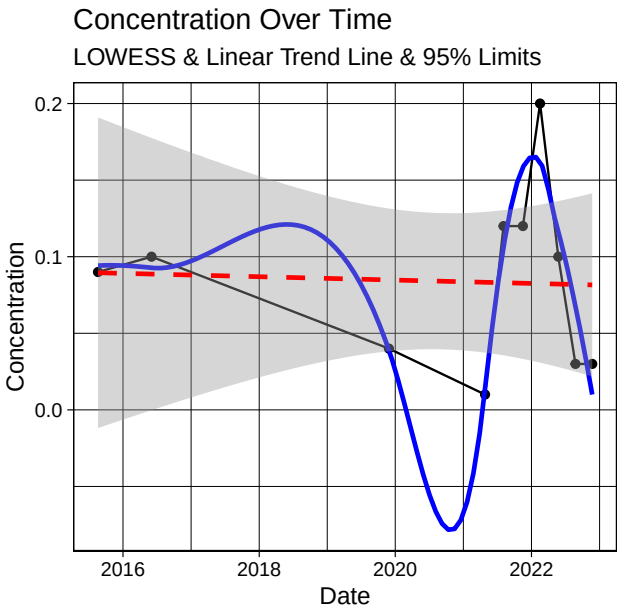
Report for ID : MW622 and Analyte : sum of PFHxS and PFOS

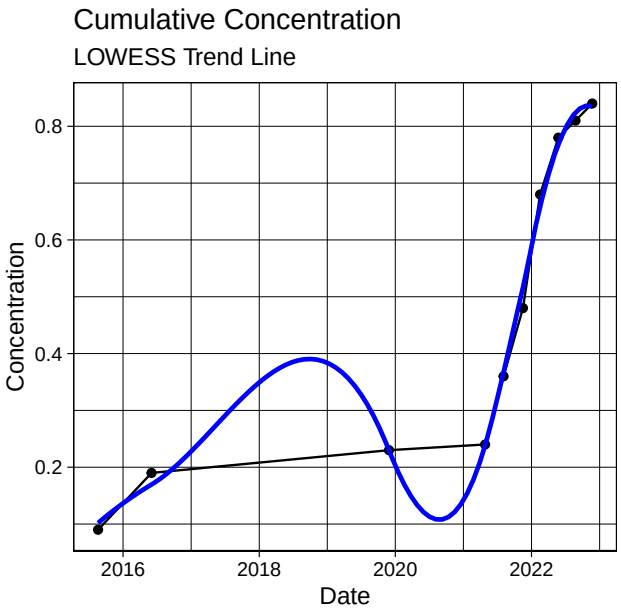




Kendall Trend Test Results Continuous	
n	10
z	-0.09
p	0.93
S	-2
varS	122
tau	-0.05
mean	0.08
sd	0.06
cov	0.69
results	STABLE

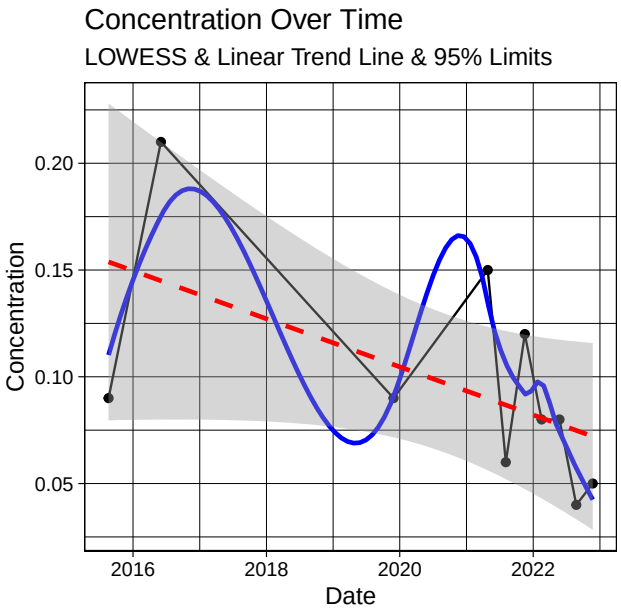
Report for ID : MW624 and Analyte : pfoa

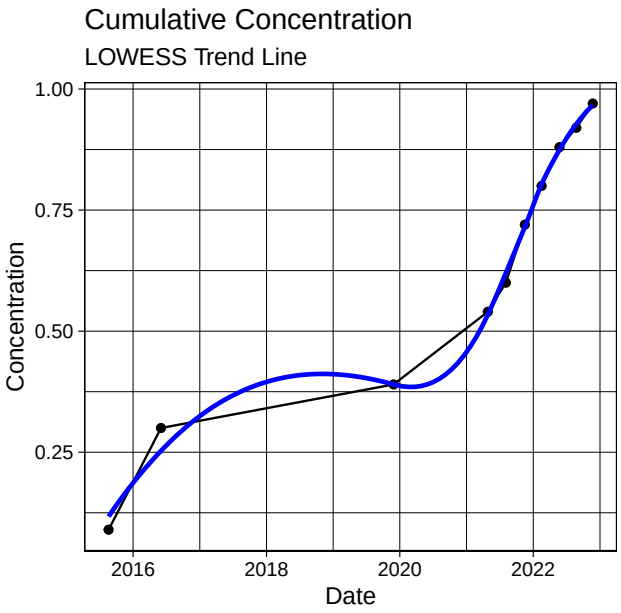




Kendall Trend Test Results Continuous	
n	10
z	-2.16
p	0.03
S	-25
varS	123
tau	-0.57
mean	0.1
sd	0.05
cov	0.53
results	DECREASING

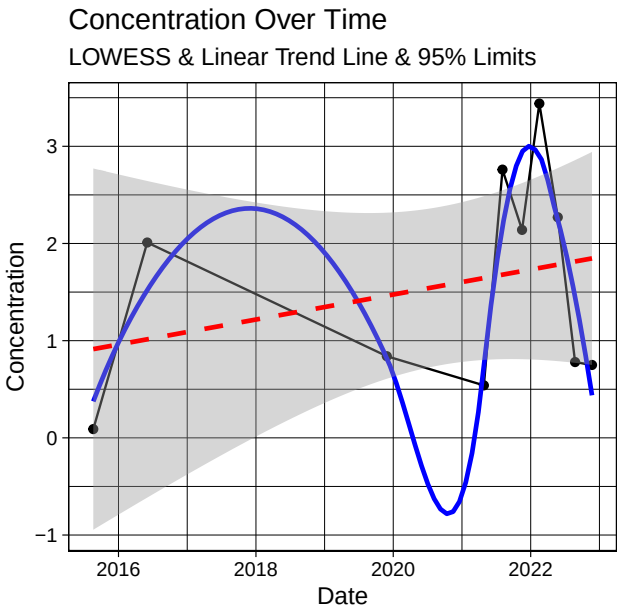
Report for ID : MW624 and Analyte : pfos

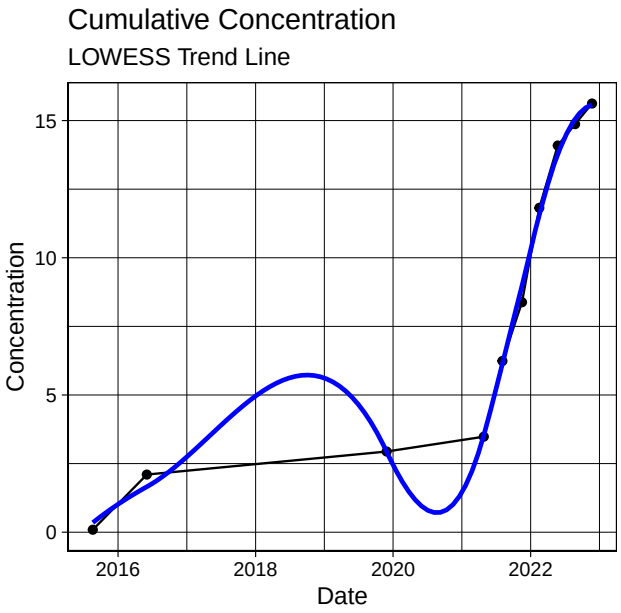




Kendall Trend Test Results Continuous	
n	10
z	0.54
p	0.59
S	7
varS	125
tau	0.16
mean	1.56
sd	1.11
cov	0.71
results	NO CLEAR TREND

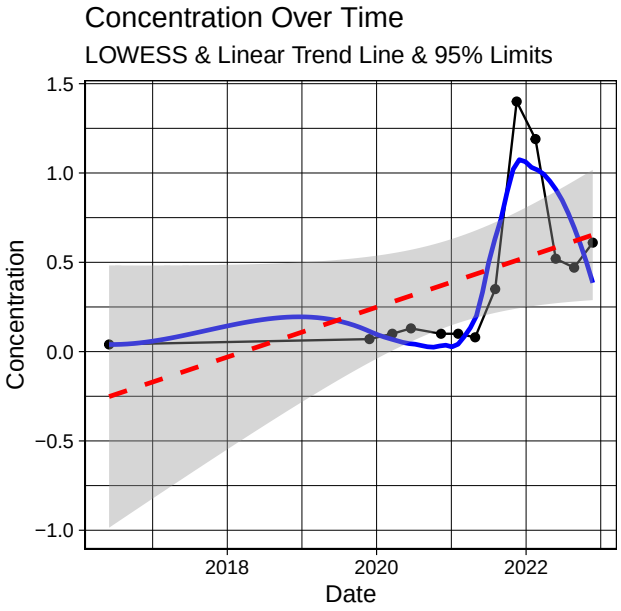
Report for ID : MW624 and Analyte : sum of PFHxS and PFOS

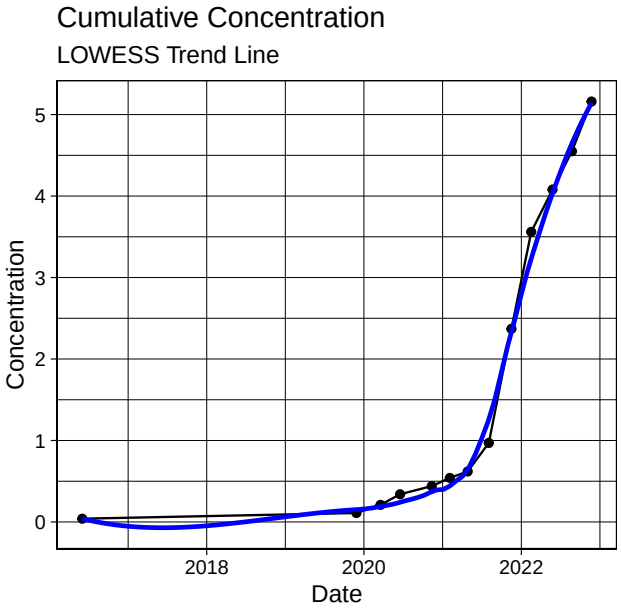




Kendall Trend Test Results Continuous	
n	13
z	2.83
p	0
S	47
varS	265
tau	0.61
mean	0.4
sd	0.44
cov	1.12
results	INCREASING

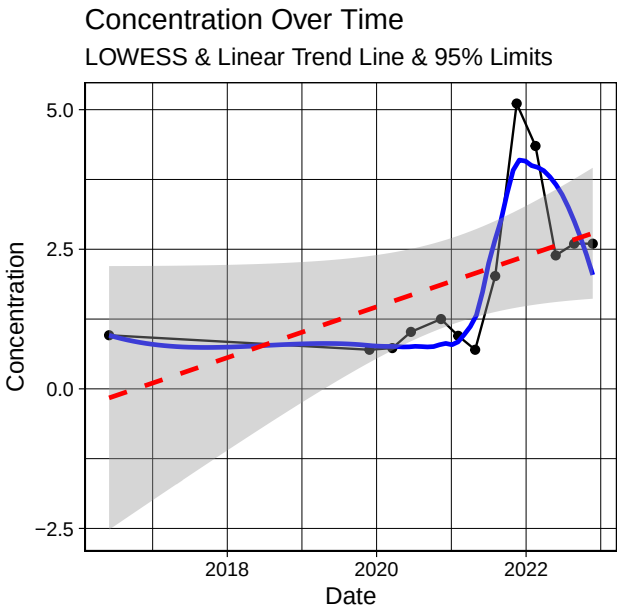
Report for ID : MW625 and Analyte : pfoa

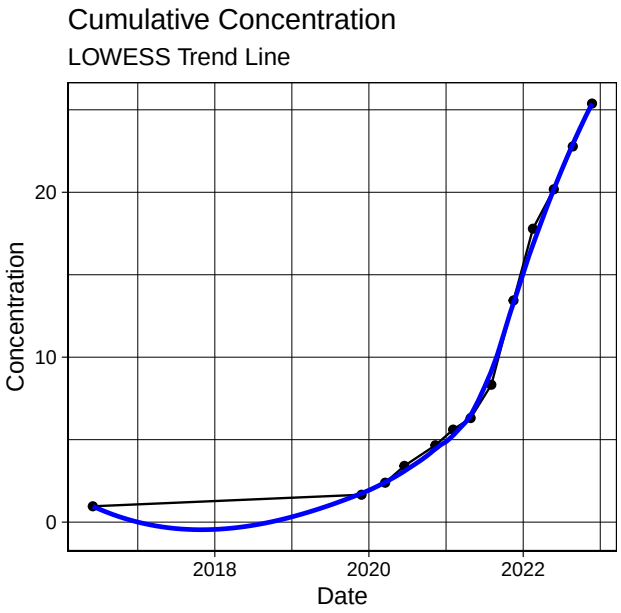




Kendall Trend Test Results Continuous	
n	13
z	2.51
p	0.01
S	42
varS	266.67
tau	0.55
mean	1.95
sd	1.44
cov	0.74
results	INCREASING

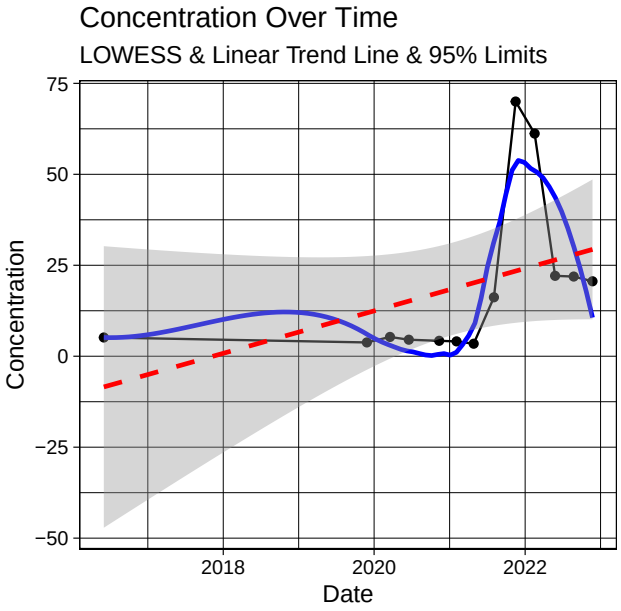
Report for ID : MW625 and Analyte : pfos

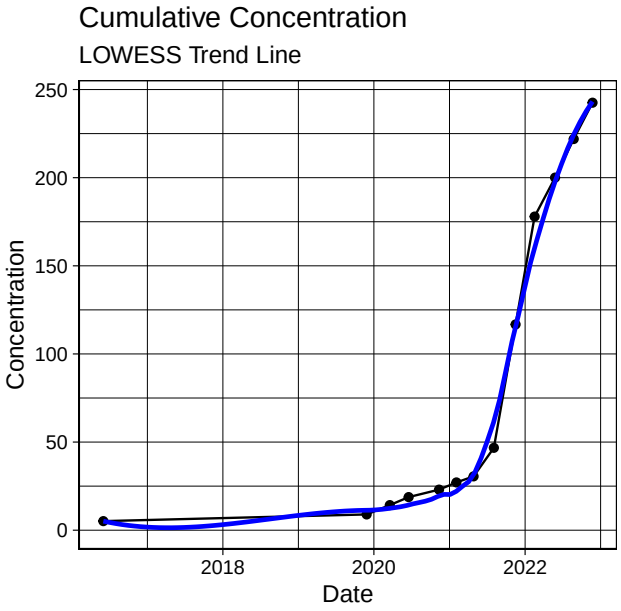




Kendall Trend Test Results Continuous	
n	13
z	1.53
p	0.13
S	26
varS	268.67
tau	0.33
mean	18.66
sd	22.19
cov	1.19
results	NO CLEAR TREND

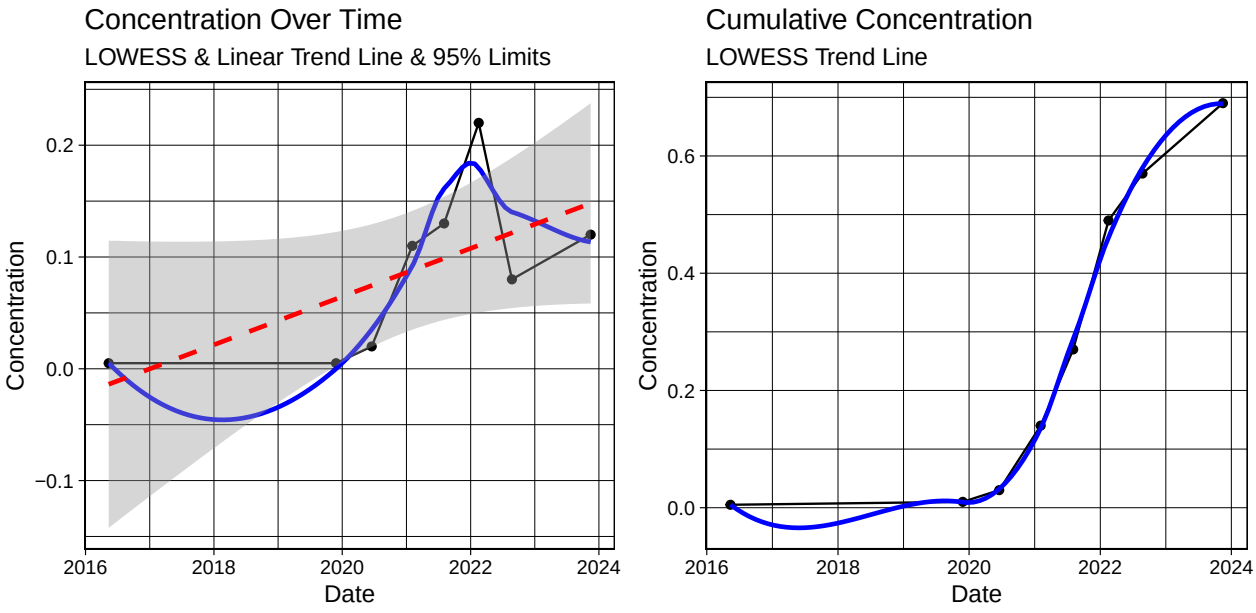
Report for ID : MW625 and Analyte : sum of PFHxS and PFOS





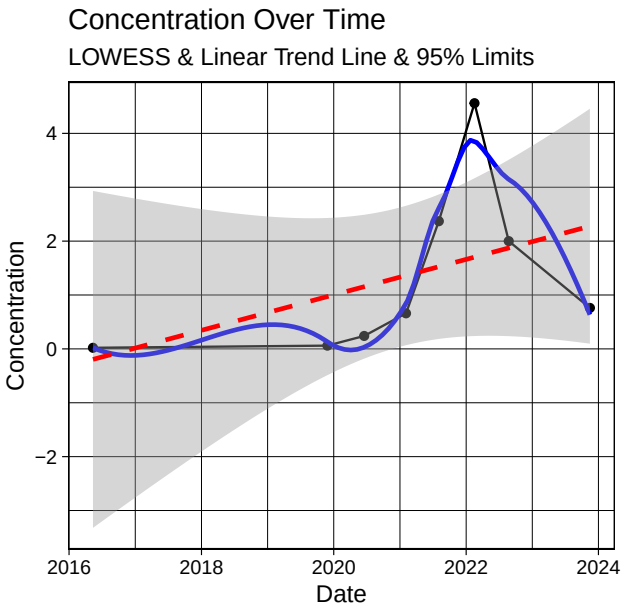
Kendall Trend Test Results Continuous	
n	8
z	1.99
p	0.05
S	17
varS	64.33
tau	0.62
mean	0.09
sd	0.07
cov	0.87
results	INCREASING

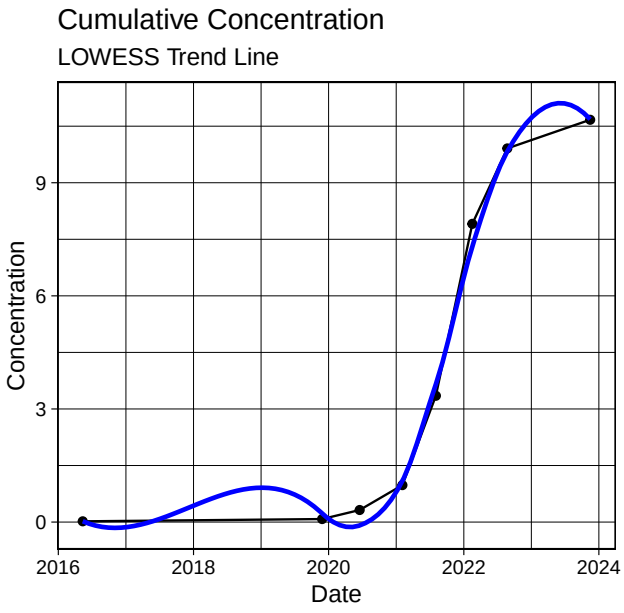
Report for ID : MW626 and Analyte : pfoa



Kendall Trend Test Results Continuous	
n	8
z	2.1
p	0.04
S	18
varS	65.33
tau	0.64
mean	1.33
sd	1.57
cov	1.18
results	INCREASING

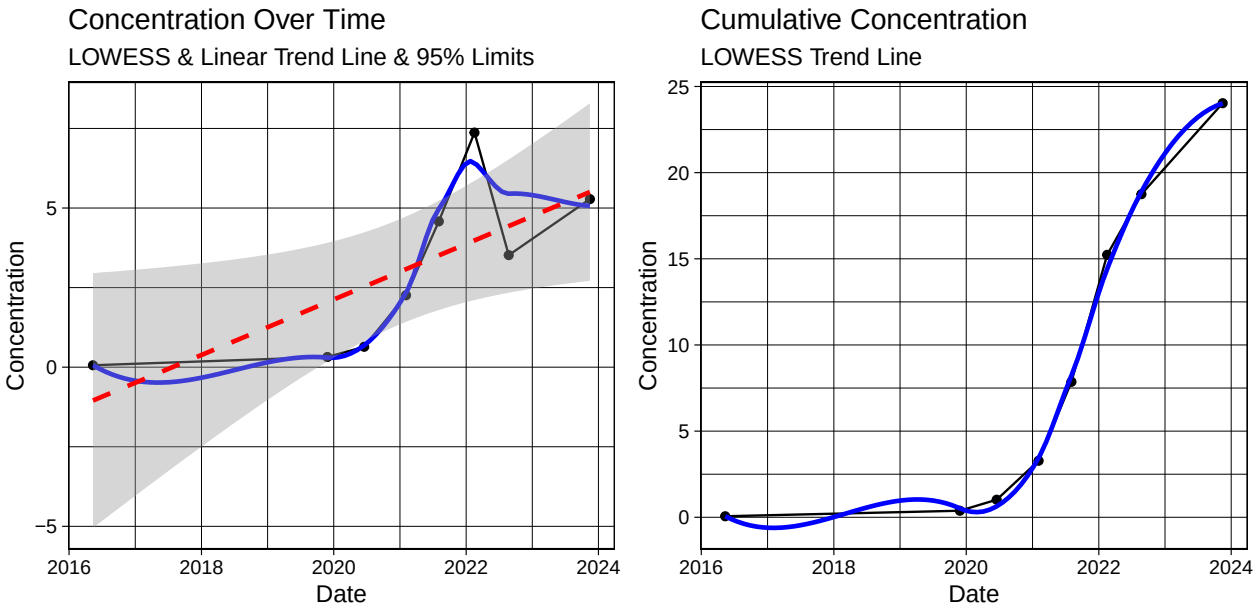
Report for ID : MW626 and Analyte : pfos





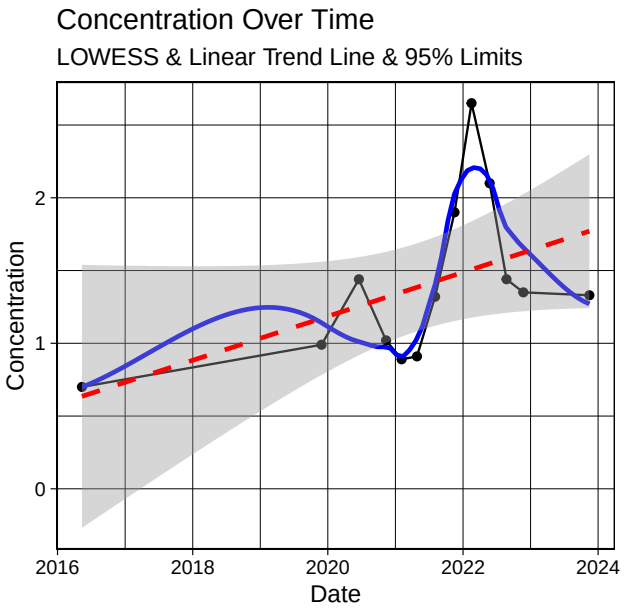
Kendall Trend Test Results Continuous	
n	8
z	2.6
p	0.01
S	22
varS	65.33
tau	0.79
mean	3
sd	2.65
cov	0.88
results	INCREASING

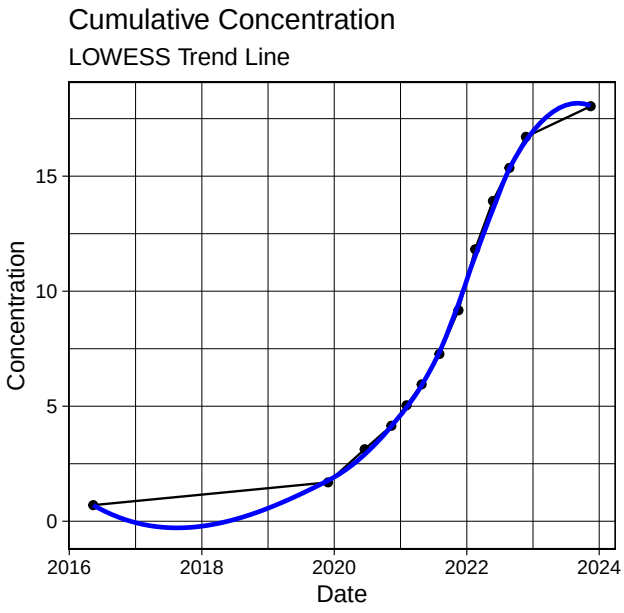
Report for ID : MW626 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	13
z	1.83
p	0.07
S	31
varS	267.67
tau	0.4
mean	1.39
sd	0.55
cov	0.4
results	POSSIBLY INCREASING

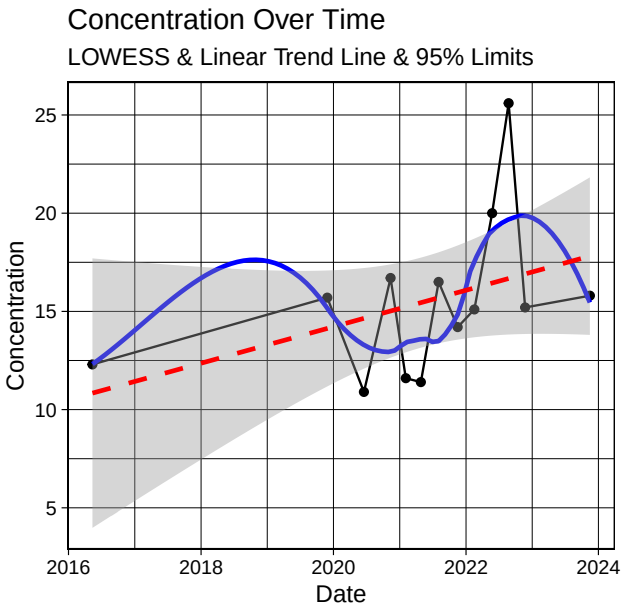
Report for ID : MW627 and Analyte : pfoa

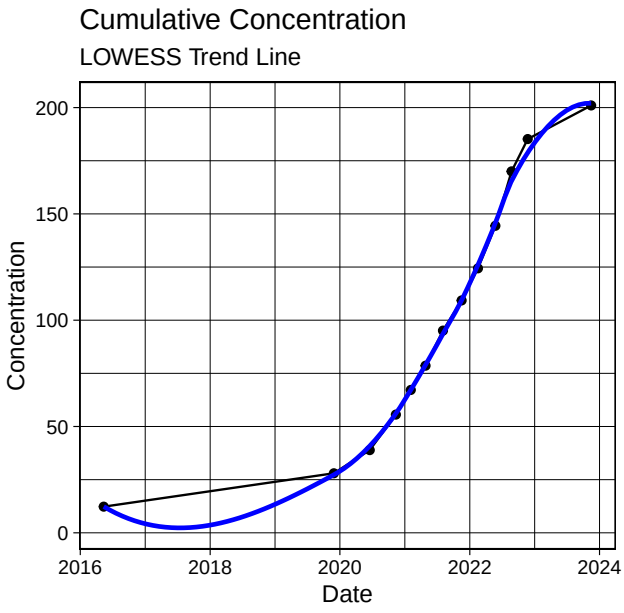




Kendall Trend Test Results Continuous	
n	13
z	1.65
p	0.1
S	28
varS	268.67
tau	0.36
mean	15.46
sd	3.98
cov	0.26
results	POSSIBLY INCREASING

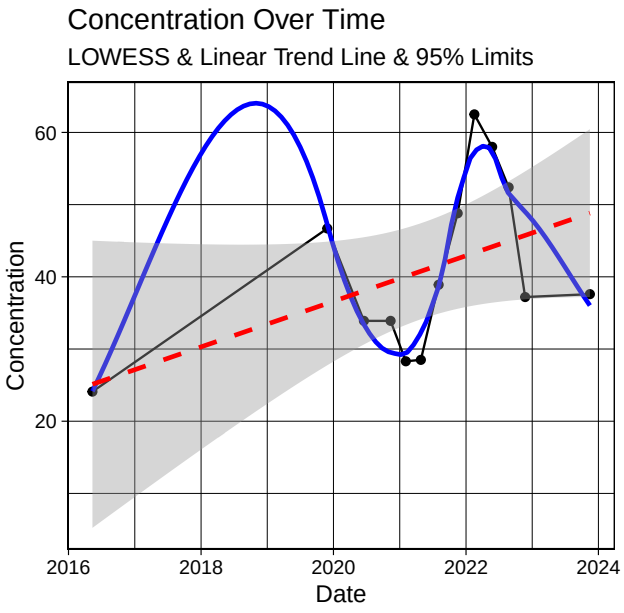
Report for ID : MW627 and Analyte : pfos

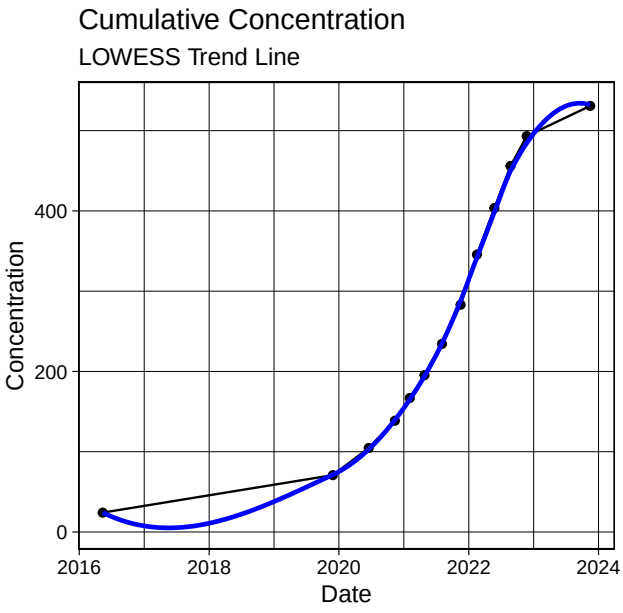




Kendall Trend Test Results Continuous	
n	13
z	1.71
p	0.09
S	29
varS	267.67
tau	0.37
mean	40.83
sd	11.93
cov	0.29
results	POSSIBLY INCREASING

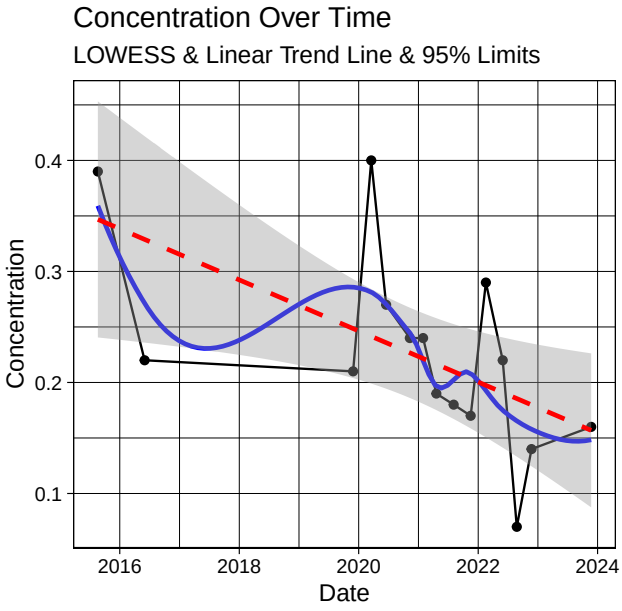
Report for ID : MW627 and Analyte : sum of PFHxS and PFOS

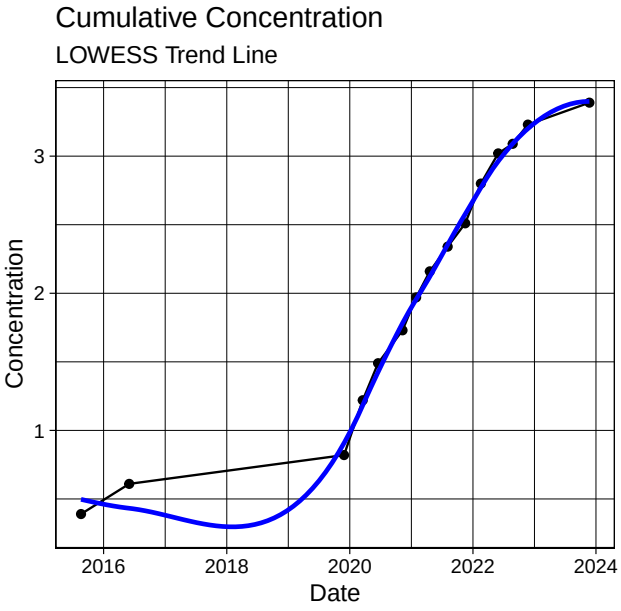




Kendall Trend Test Results Continuous	
n	15
z	-2.68
p	0.01
S	-55
varS	406.33
tau	-0.53
mean	0.23
sd	0.09
cov	0.39
results	DECREASING

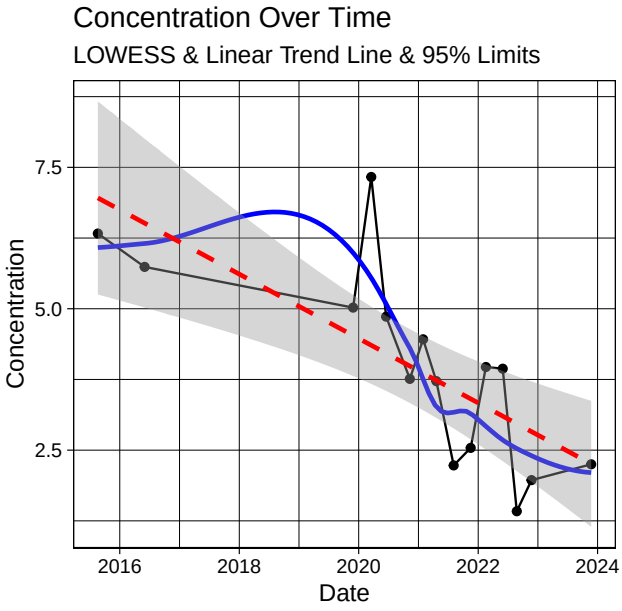
Report for ID : MW628 and Analyte : pfoa

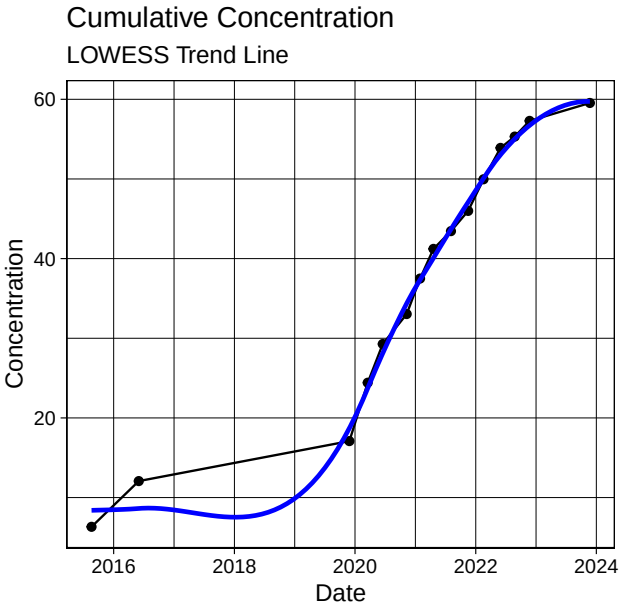




Kendall Trend Test Results Continuous	
n	15
z	-3.46
p	0
S	-71
varS	408.33
tau	-0.68
mean	3.97
sd	1.71
cov	0.43
results	DECREASING

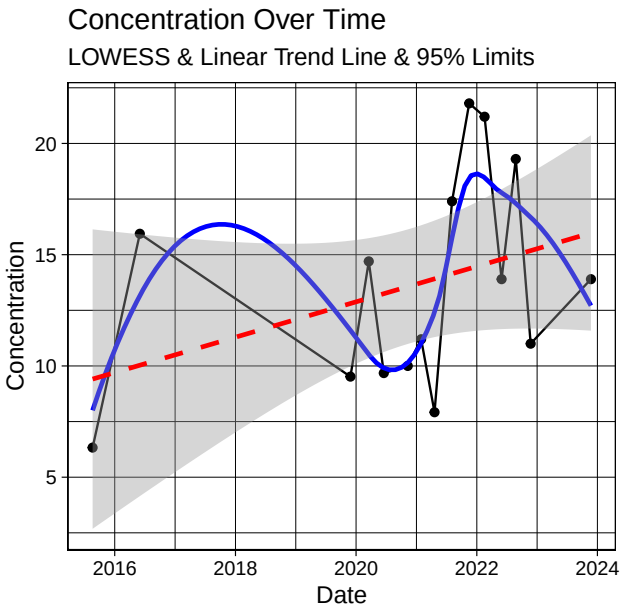
Report for ID : MW628 and Analyte : pfos

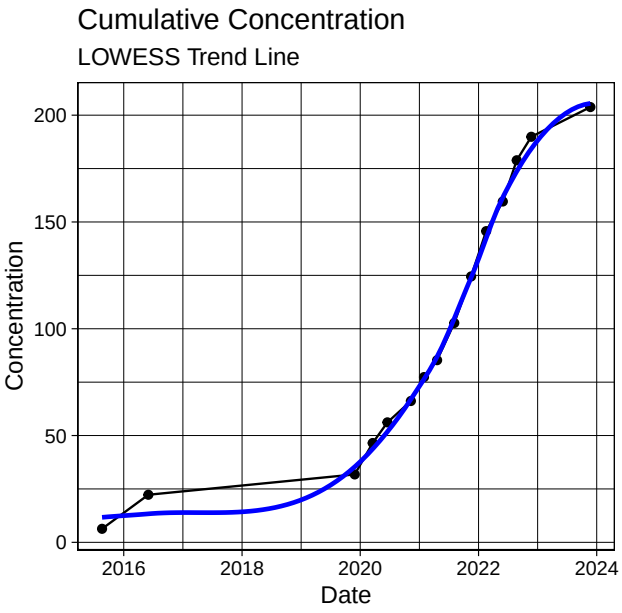




Kendall Trend Test Results Continuous	
n	15
z	1.54
p	0.12
S	32
varS	407.33
tau	0.31
mean	13.59
sd	4.79
cov	0.35
results	NO CLEAR TREND

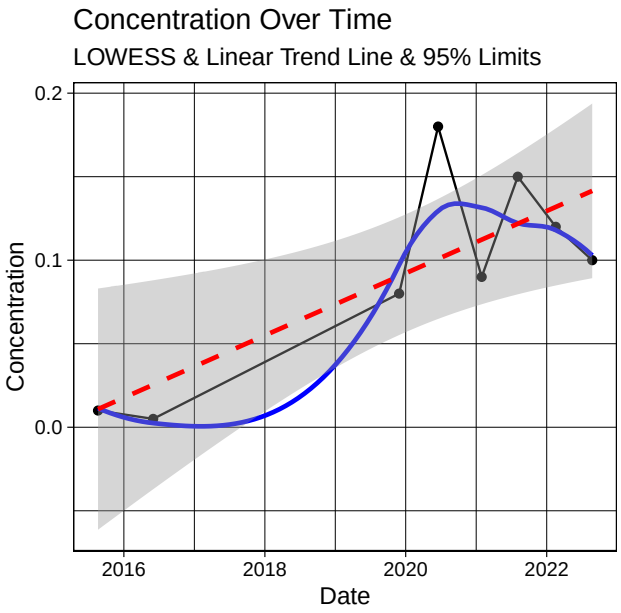
Report for ID : MW628 and Analyte : sum of PFHxS and PFOS

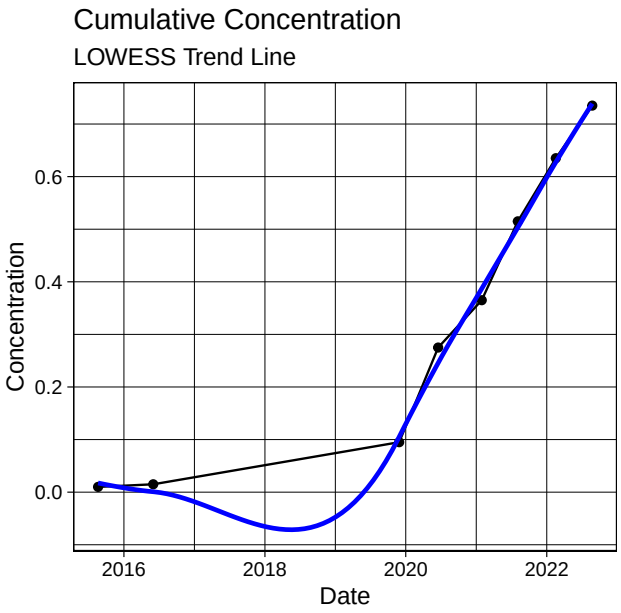




Kendall Trend Test Results Continuous	
n	8
z	1.36
p	0.17
S	12
varS	65.33
tau	0.43
mean	0.09
sd	0.06
cov	0.67
results	NO CLEAR TREND

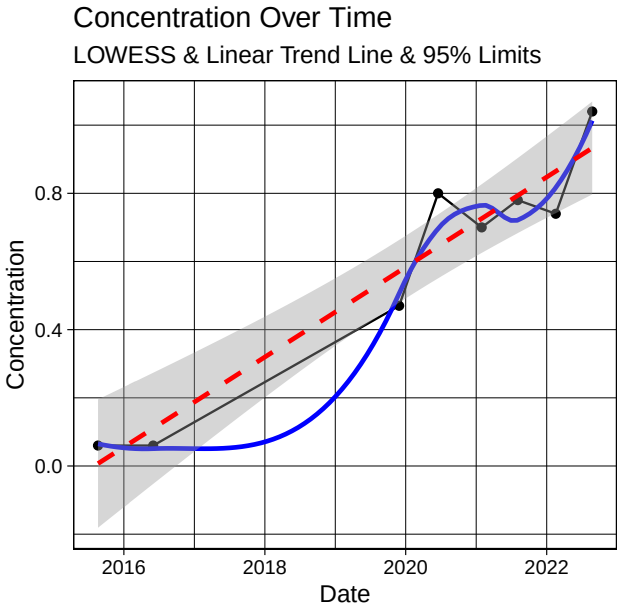
Report for ID : MW629 and Analyte : pfoa

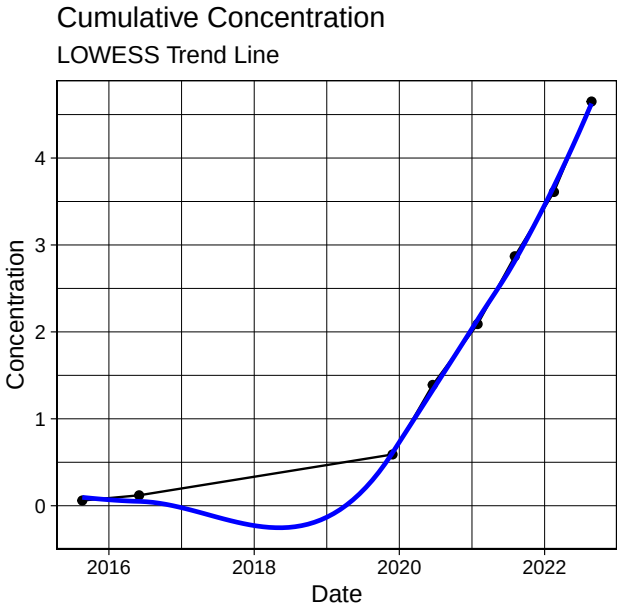




Kendall Trend Test Results Continuous	
n	8
z	2.24
p	0.02
S	19
varS	64.33
tau	0.69
mean	0.58
sd	0.36
cov	0.61
results	INCREASING

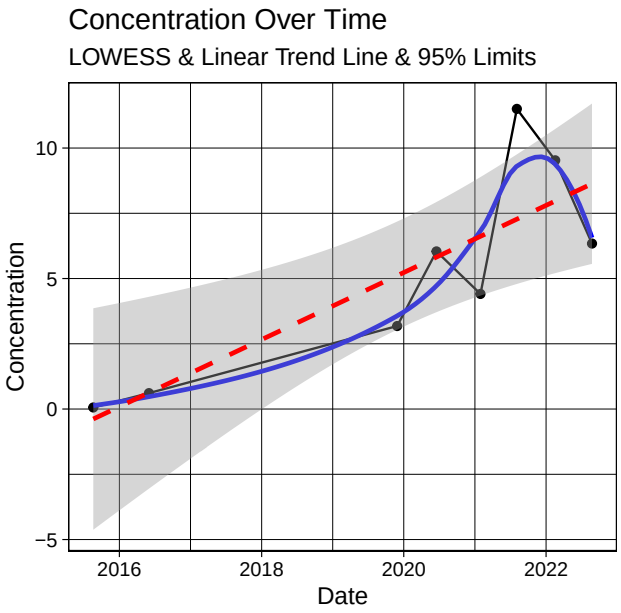
Report for ID : MW629 and Analyte : pfos

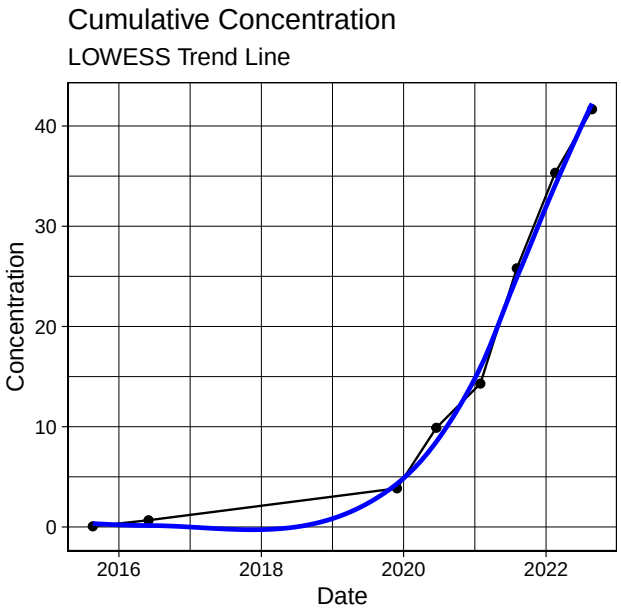




Kendall Trend Test Results Continuous	
n	8
z	2.35
p	0.02
S	20
varS	65.33
tau	0.71
mean	5.21
sd	4.01
cov	0.77
results	INCREASING

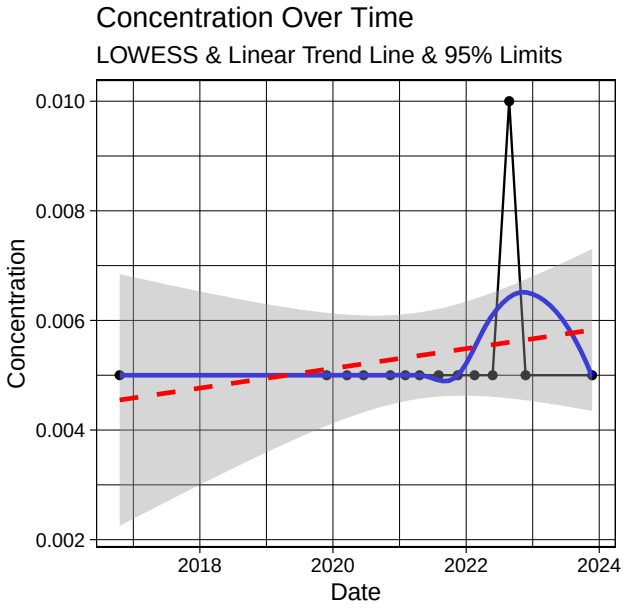
Report for ID : MW629 and Analyte : sum of PFHxS and PFOS

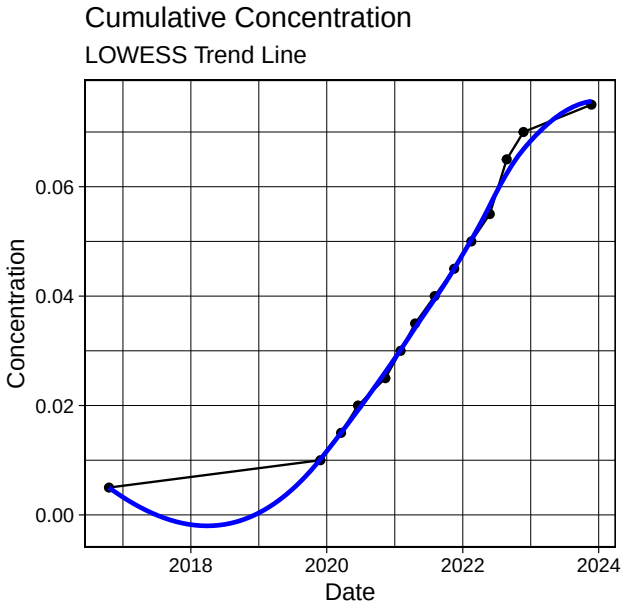




Kendall Trend Test Results Continuous	
n	14
z	0.99
p	0.32
S	9
varS	65
tau	0.26
mean	0.01
sd	0
cov	0.25
results	NO CLEAR TREND

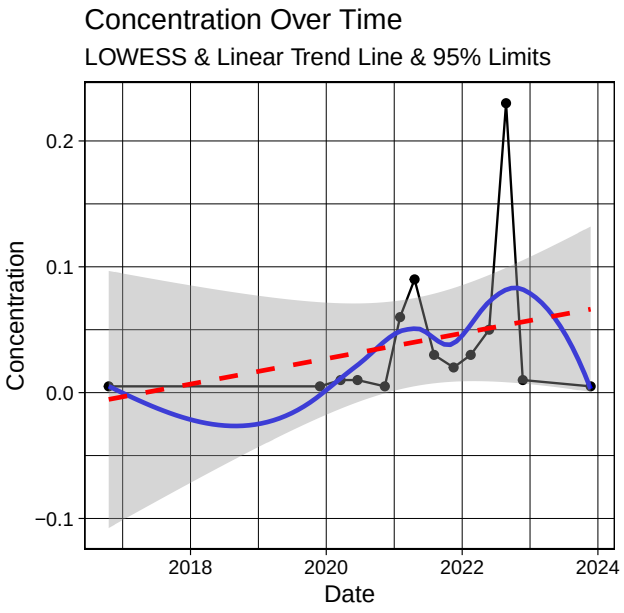
Report for ID : MW701 and Analyte : pfoa

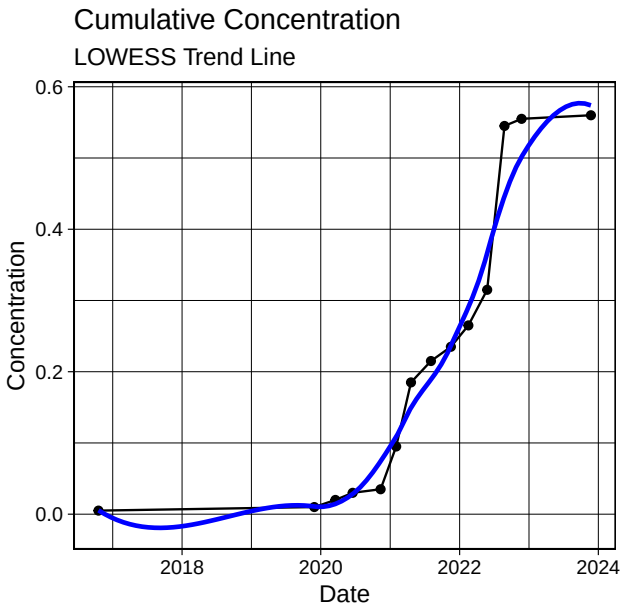




Kendall Trend Test Results Continuous	
n	14
z	1.34
p	0.18
S	25
varS	320.33
tau	0.29
mean	0.04
sd	0.06
cov	1.51
results	NO CLEAR TREND

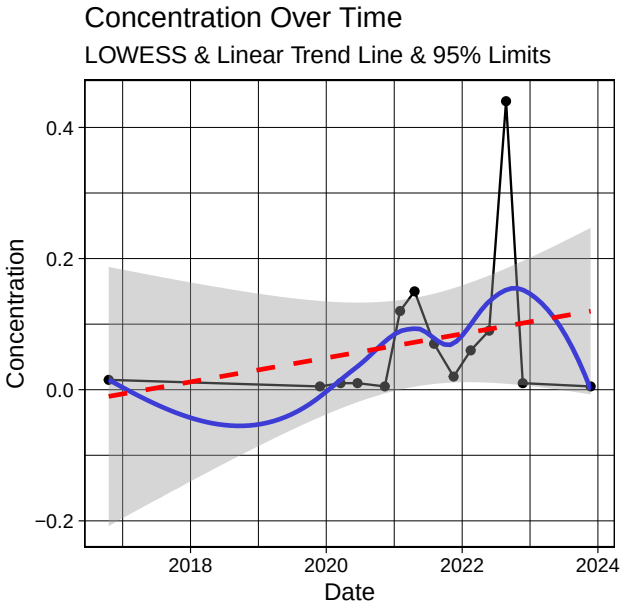
Report for ID : MW701 and Analyte : pfos

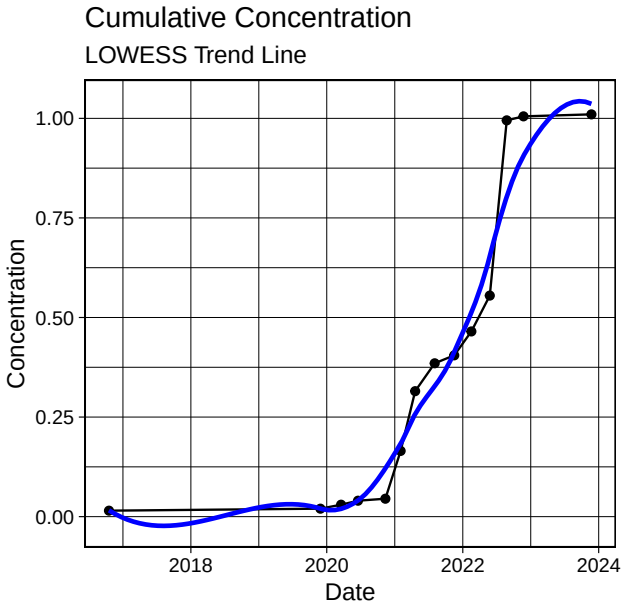




Kendall Trend Test Results Continuous	
n	14
z	0.77
p	0.44
S	15
varS	326.33
tau	0.17
mean	0.07
sd	0.12
cov	1.61
results	NO CLEAR TREND

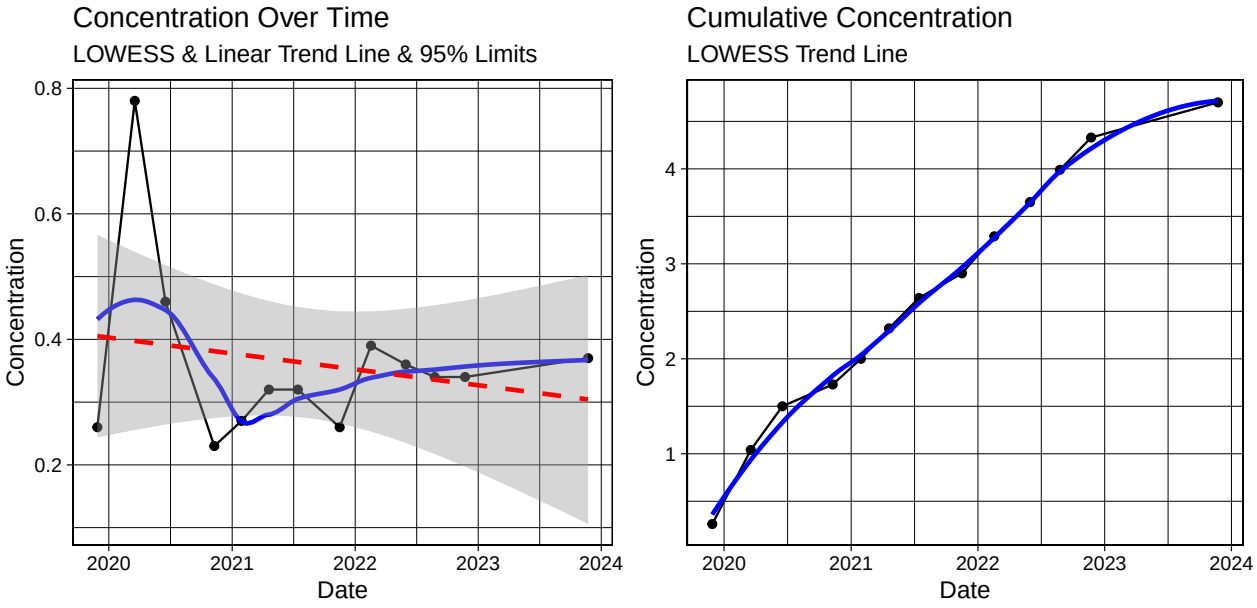
Report for ID : MW701 and Analyte : sum of PFHxS and PFOS





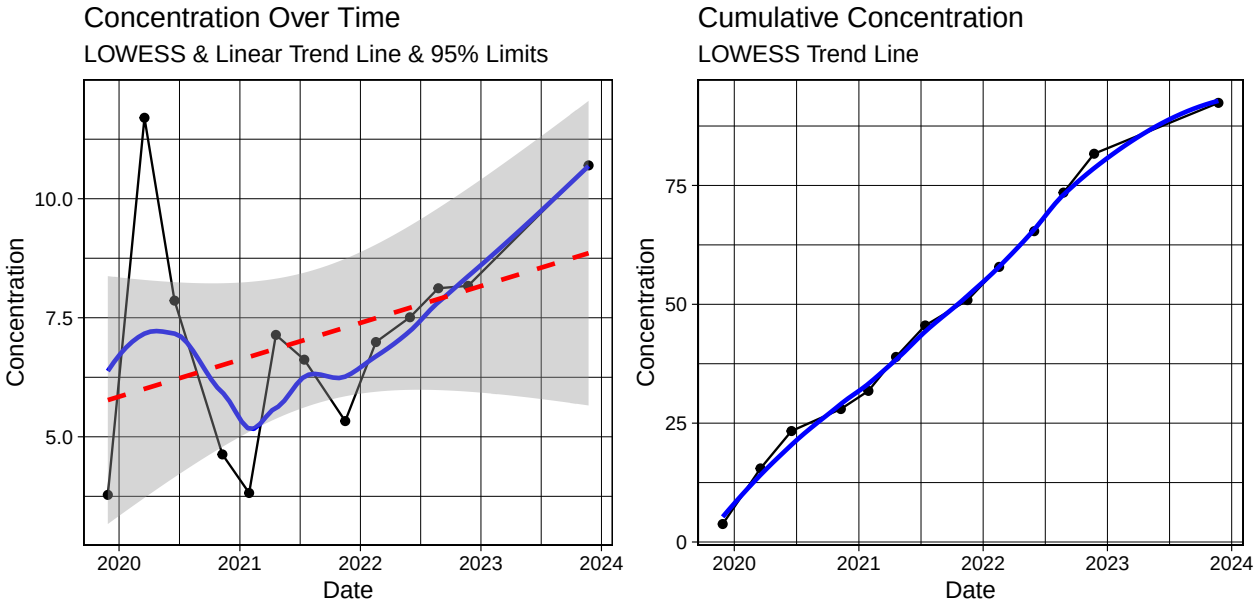
Kendall Trend Test Results Continuous	
n	13
z	0.74
p	0.46
S	13
varS	265.67
tau	0.17
mean	0.36
sd	0.14
cov	0.39
results	NO CLEAR TREND

Report for ID : MW702 and Analyte : pfoa



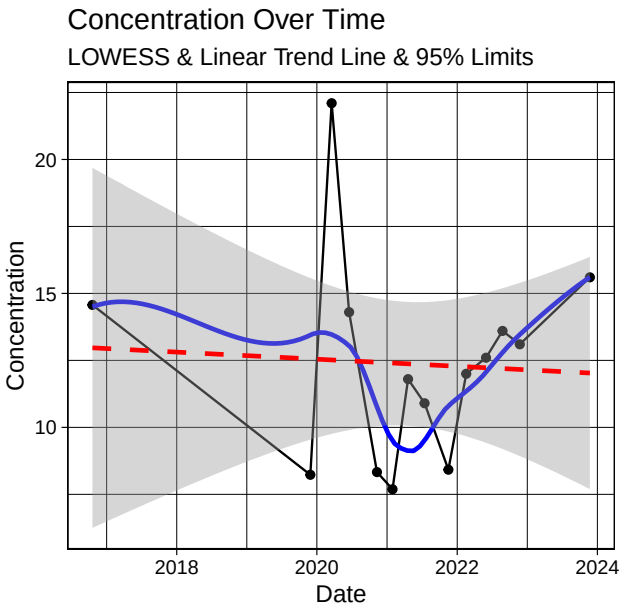
Kendall Trend Test Results Continuous	
n	13
z	1.89
p	0.06
S	32
varS	268.67
tau	0.41
mean	7.11
sd	2.39
cov	0.34
results	POSSIBLY INCREASING

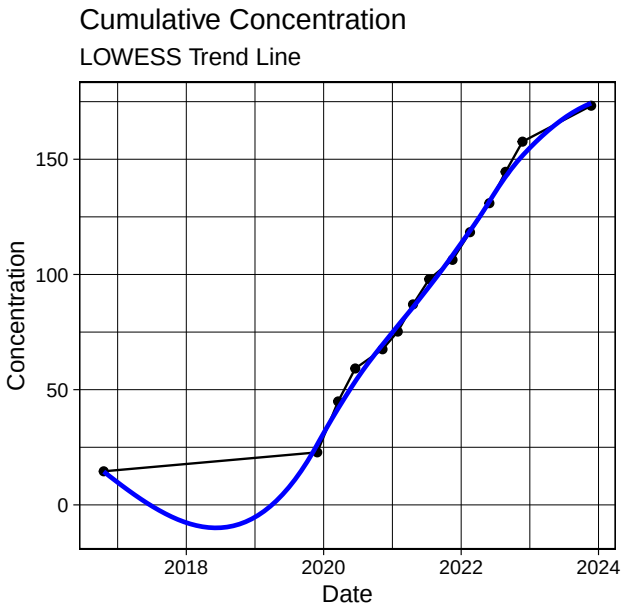
Report for ID : MW702 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	0.88
p	0.38
S	17
varS	333.67
tau	0.19
mean	12.37
sd	3.82
cov	0.31
results	NO CLEAR TREND

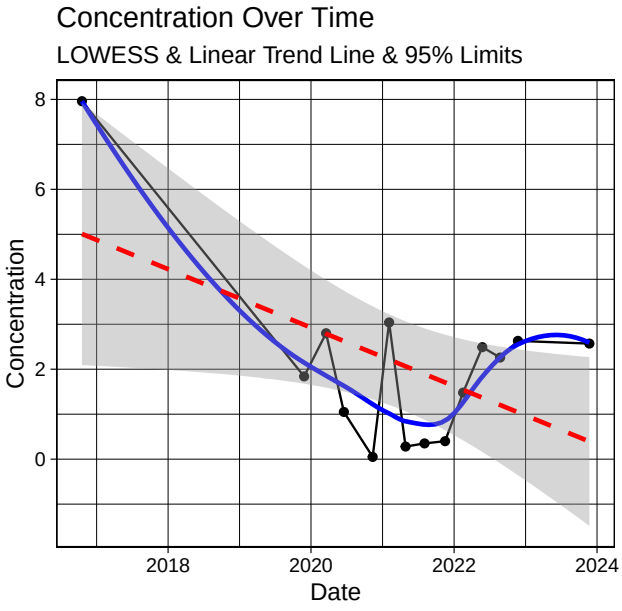
Report for ID : MW702 and Analyte : sum of PFHxS and PFOS

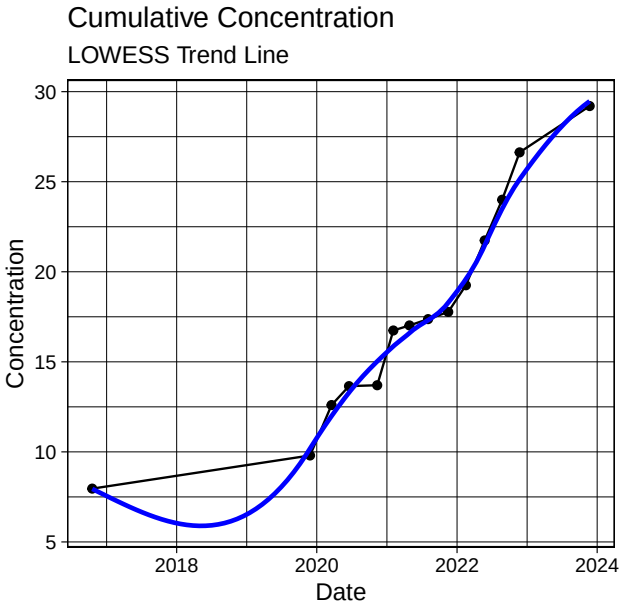




Kendall Trend Test Results Continuous	
n	14
z	0.22
p	0.83
S	5
varS	333.67
tau	0.05
mean	2.09
sd	1.99
cov	0.95
results	NO CLEAR TREND

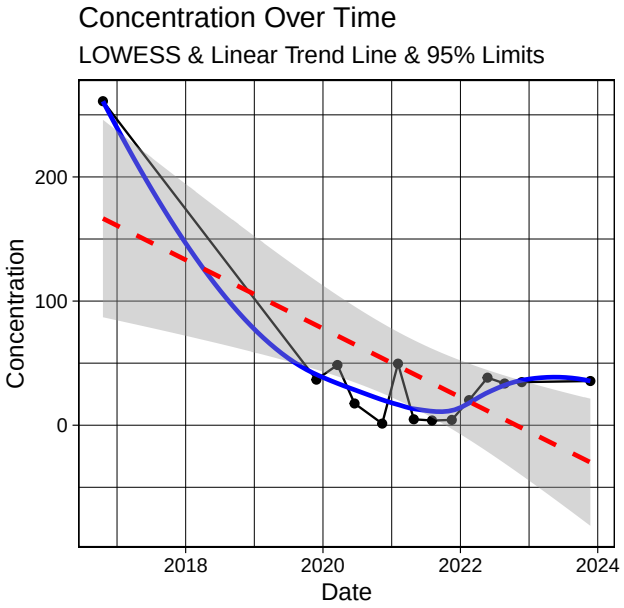
Report for ID : MW704 and Analyte : pfoa

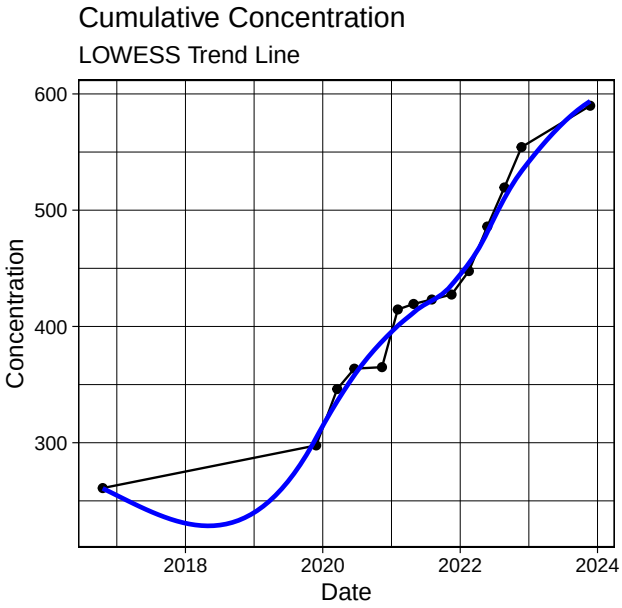




Kendall Trend Test Results Continuous	
n	14
z	-0.33
p	0.74
S	-7
varS	333.67
tau	-0.08
mean	42.13
sd	65.2
cov	1.55
results	NO CLEAR TREND

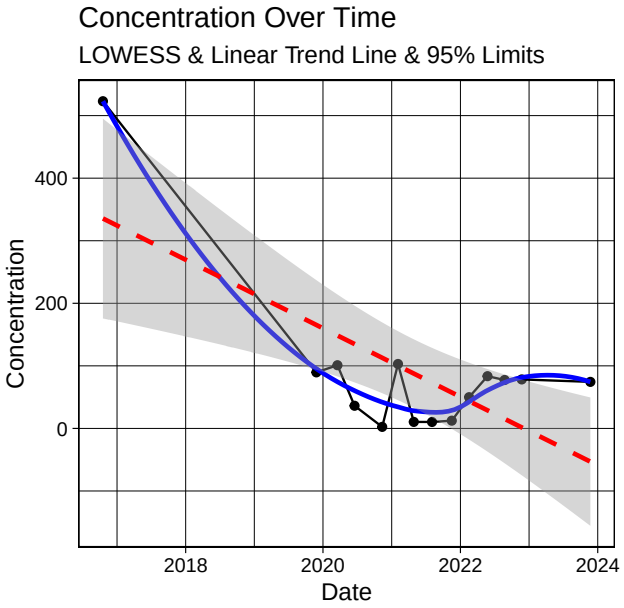
Report for ID : MW704 and Analyte : pfos

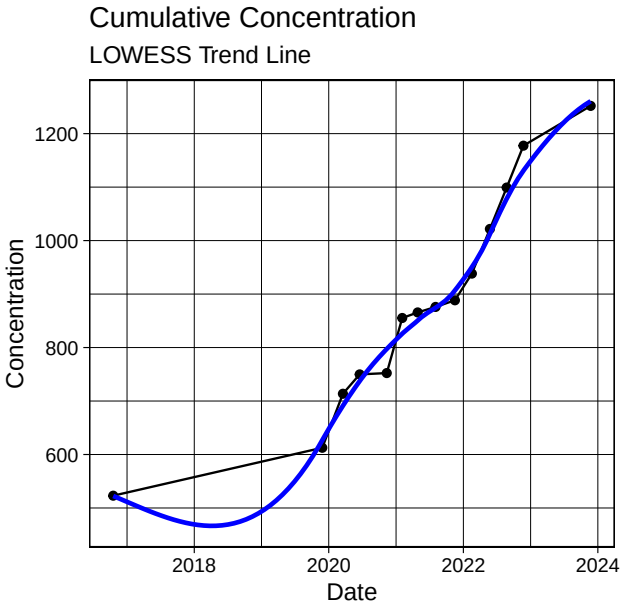




Kendall Trend Test Results Continuous	
n	14
z	-0.55
p	0.58
S	-11
varS	333.67
tau	-0.12
mean	89.42
sd	129.86
cov	1.45
results	NO CLEAR TREND

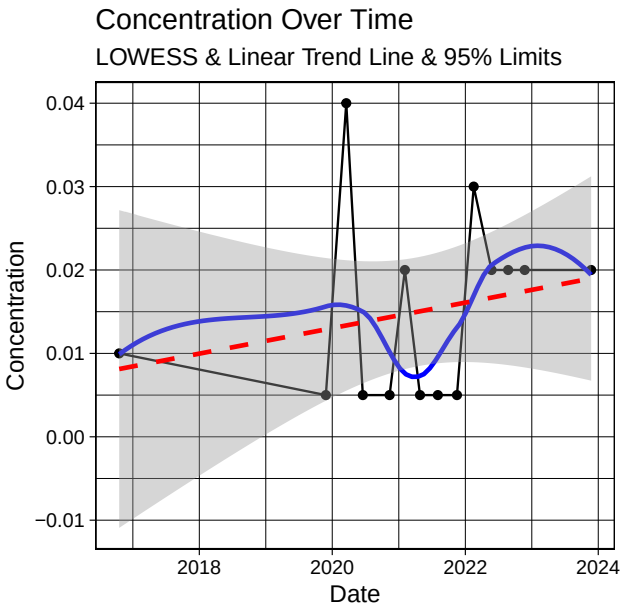
Report for ID : MW704 and Analyte : sum of PFHxS and PFOS

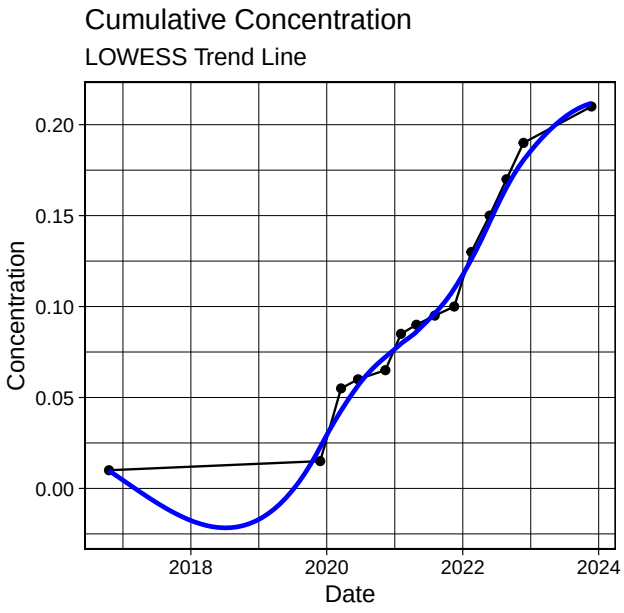




Kendall Trend Test Results Continuous	
n	14
z	1
p	0.32
S	18
varS	288.67
tau	0.23
mean	0.01
sd	0.01
cov	0.74
results	NO CLEAR TREND

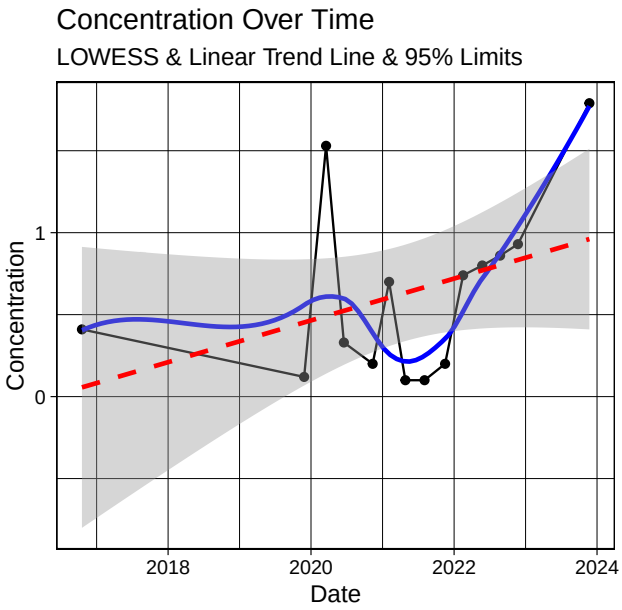
Report for ID : MW705 and Analyte : pfoa

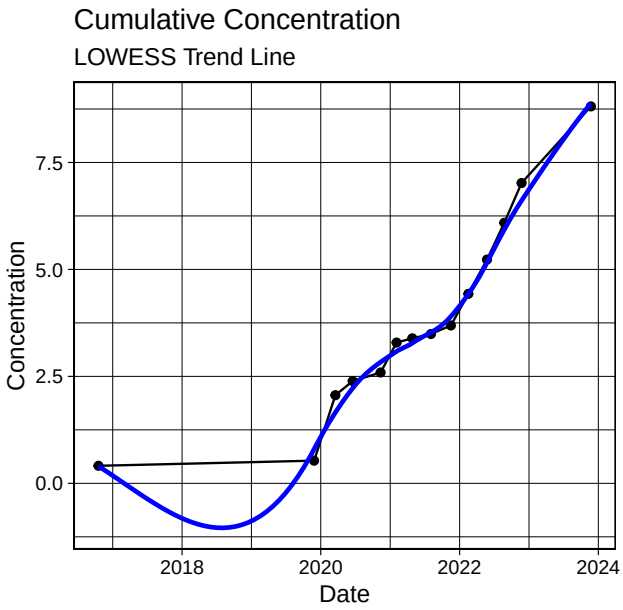




Kendall Trend Test Results Continuous	
n	14
z	1.87
p	0.06
S	35
varS	331.67
tau	0.39
mean	0.63
sd	0.53
cov	0.84
results	POSSIBLY INCREASING

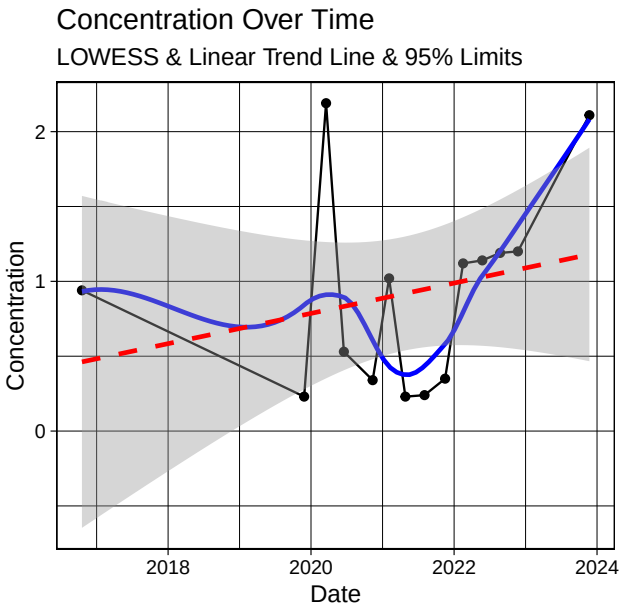
Report for ID : MW705 and Analyte : pfos

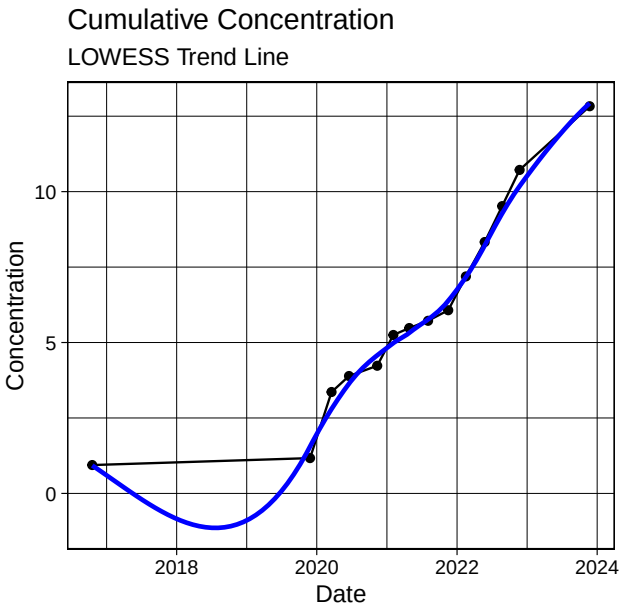




Kendall Trend Test Results Continuous	
n	14
z	2.03
p	0.04
S	38
varS	332.67
tau	0.42
mean	0.92
sd	0.65
cov	0.71
results	INCREASING

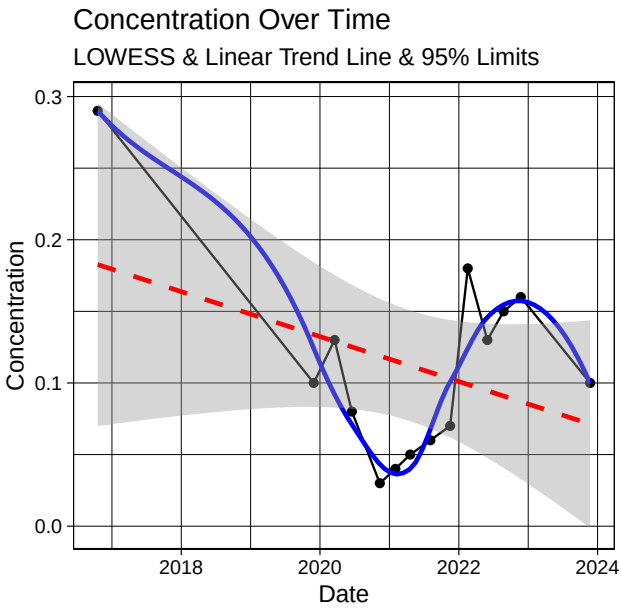
Report for ID : MW705 and Analyte : sum of PFHxS and PFOS

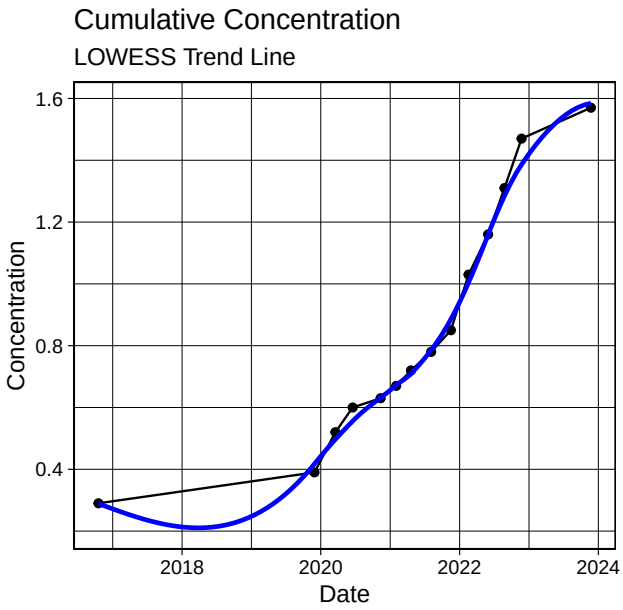




Kendall Trend Test Results Continuous	
n	14
z	0.66
p	0.51
S	13
varS	331.67
tau	0.14
mean	0.11
sd	0.07
cov	0.62
results	NO CLEAR TREND

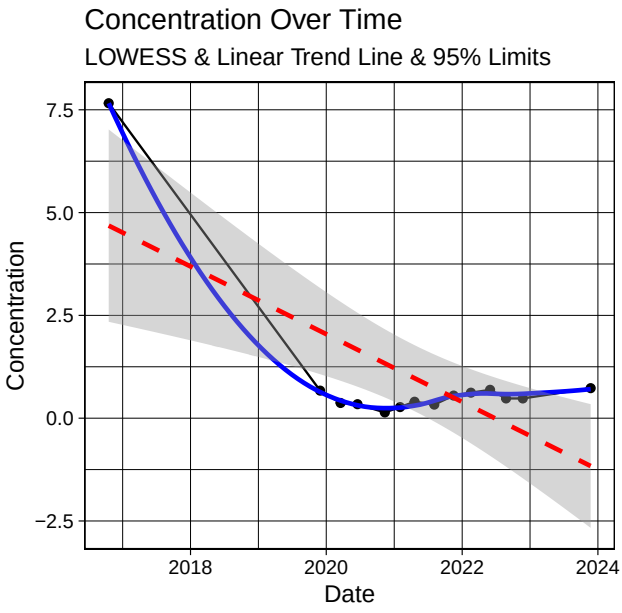
Report for ID : MW708 and Analyte : pfoa

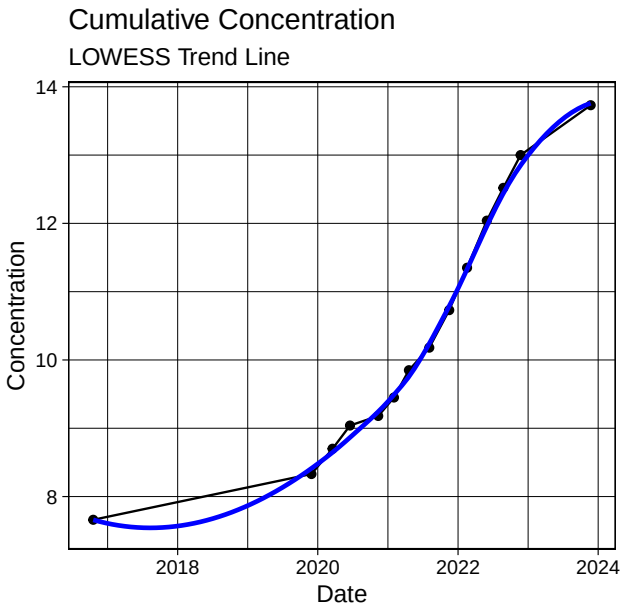




Kendall Trend Test Results Continuous	
n	14
z	0.82
p	0.41
S	16
varS	332.67
tau	0.18
mean	0.98
sd	1.93
cov	1.97
results	NO CLEAR TREND

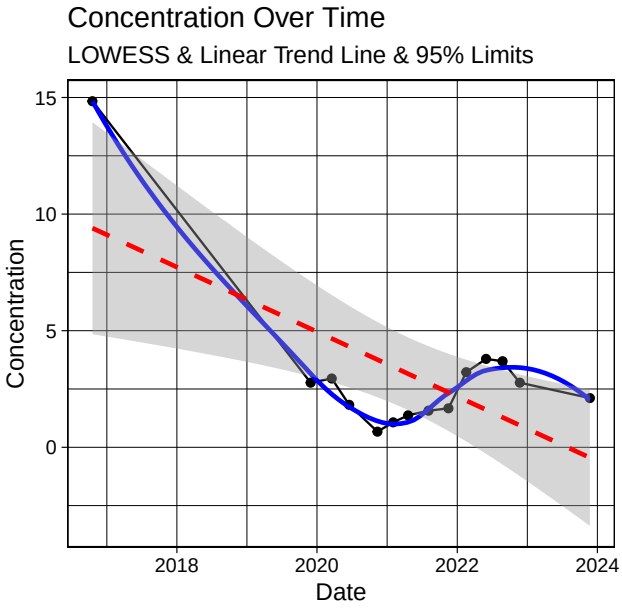
Report for ID : MW708 and Analyte : pfos

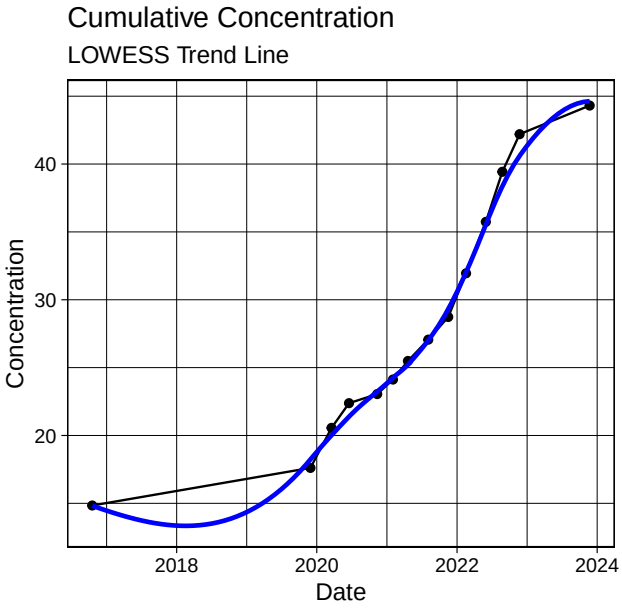




Kendall Trend Test Results Continuous	
n	14
z	0.38
p	0.7
S	8
varS	332.67
tau	0.09
mean	3.16
sd	3.5
cov	1.1
results	NO CLEAR TREND

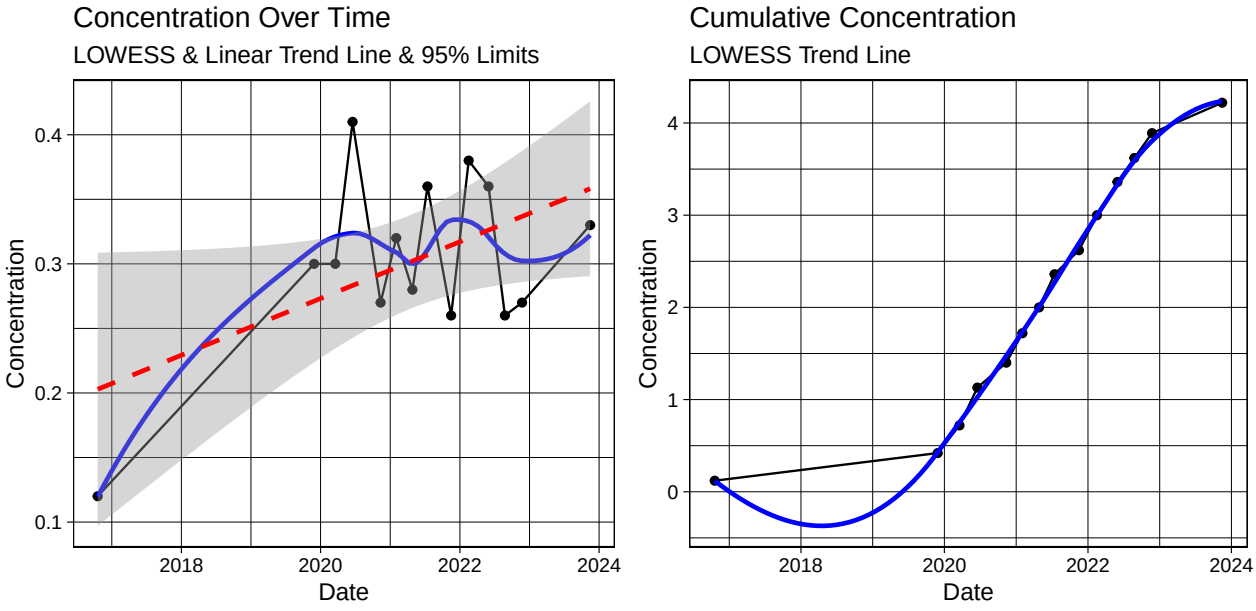
Report for ID : MW708 and Analyte : sum of PFHxS and PFOS





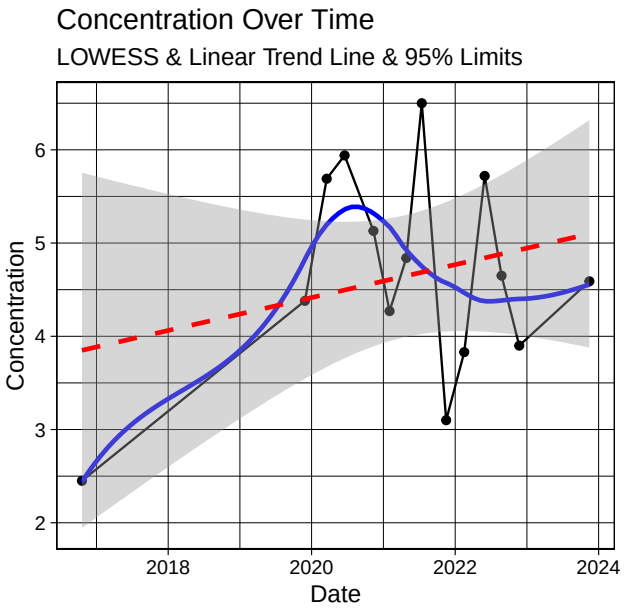
Kendall Trend Test Results Continuous	
n	14
z	0.33
p	0.74
S	7
varS	329.67
tau	0.08
mean	0.3
sd	0.07
cov	0.23
results	NO CLEAR TREND

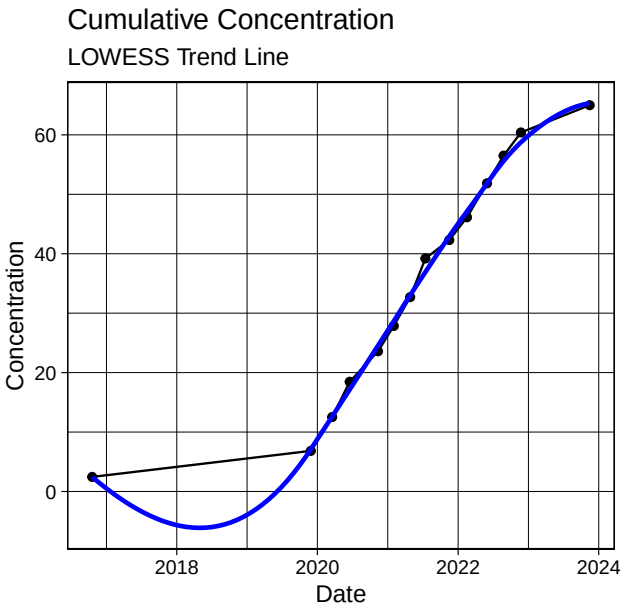
Report for ID : MW709 and Analyte : pfoa



Kendall Trend Test Results Continuous	
n	14
z	-0.11
p	0.91
S	-3
varS	333.67
tau	-0.03
mean	4.64
sd	1.12
cov	0.24
results	STABLE

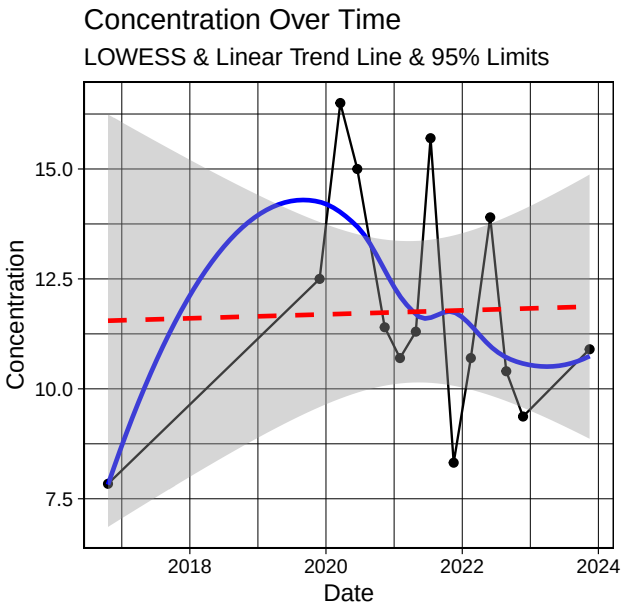
Report for ID : MW709 and Analyte : pfos

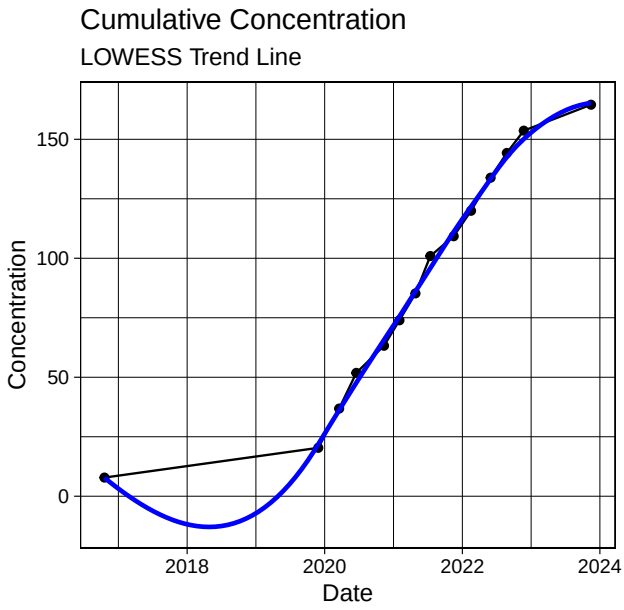




Kendall Trend Test Results Continuous	
n	14
z	-1.04
p	0.3
S	-20
varS	332.67
tau	-0.22
mean	11.75
sd	2.66
cov	0.23
results	STABLE

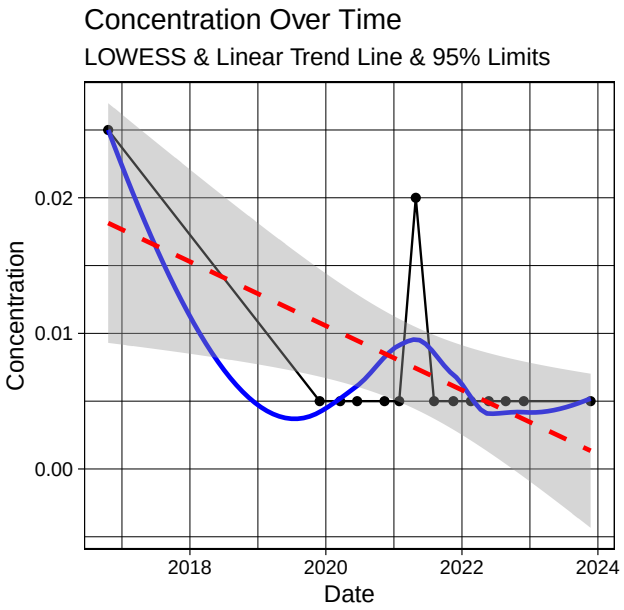
Report for ID : MW709 and Analyte : sum of PFHxS and PFOS

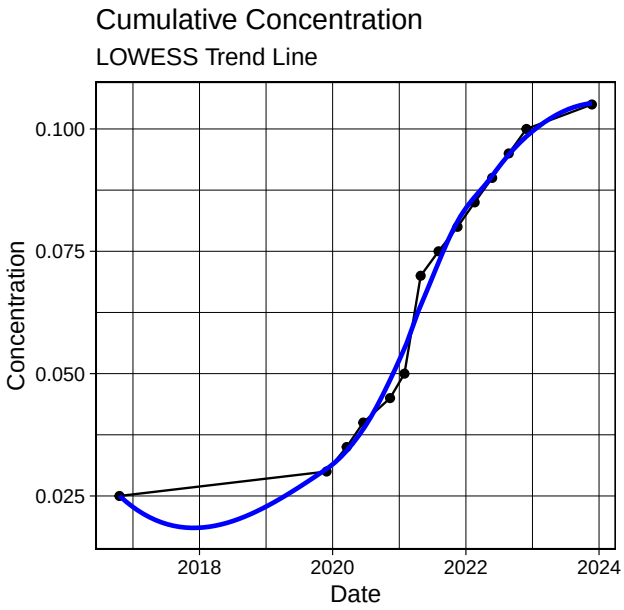




Kendall Trend Test Results Continuous	
n	14
z	-1.27
p	0.2
S	-15
varS	121
tau	-0.31
mean	0.01
sd	0.01
cov	0.86
results	STABLE

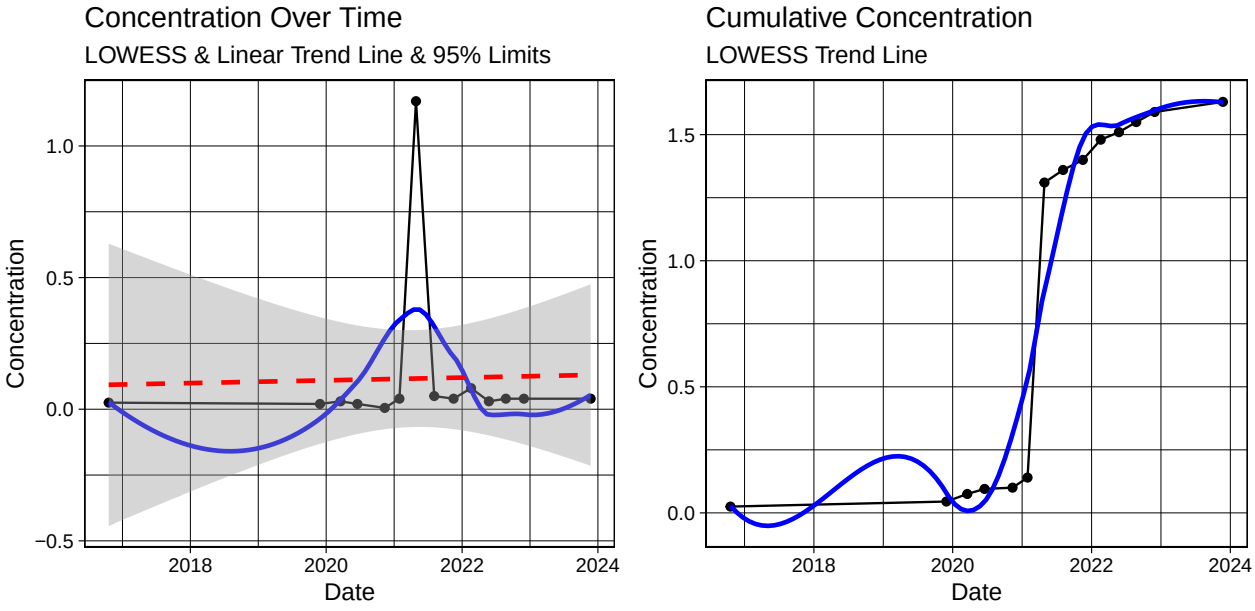
Report for ID : MW711 and Analyte : pfoa





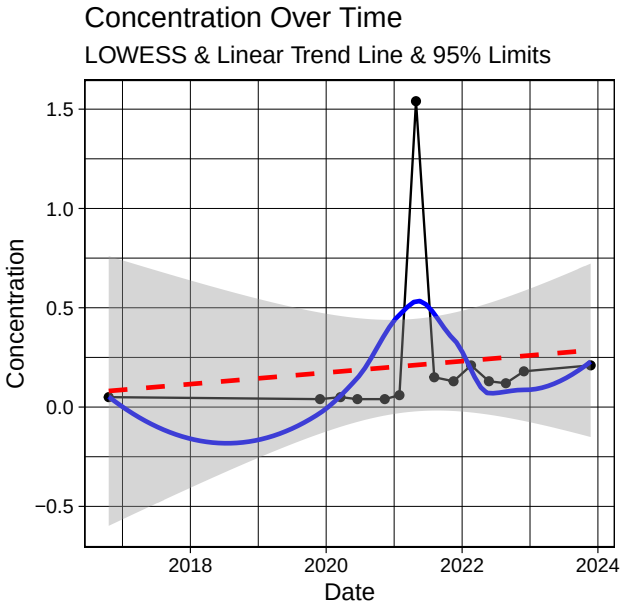
Kendall Trend Test Results Continuous	
n	14
z	1.58
p	0.11
S	29
varS	315
tau	0.34
mean	0.12
sd	0.3
cov	2.61
results	NO CLEAR TREND

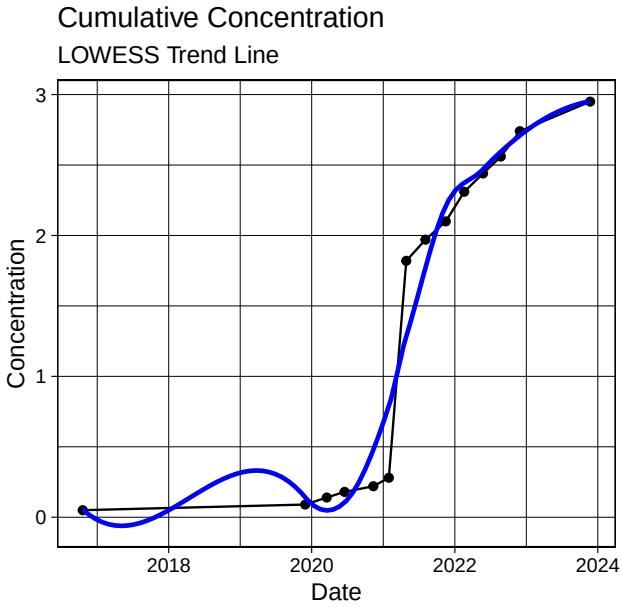
Report for ID : MW711 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	2.43
p	0.01
S	45
varS	327
tau	0.51
mean	0.21
sd	0.39
cov	1.84
results	INCREASING

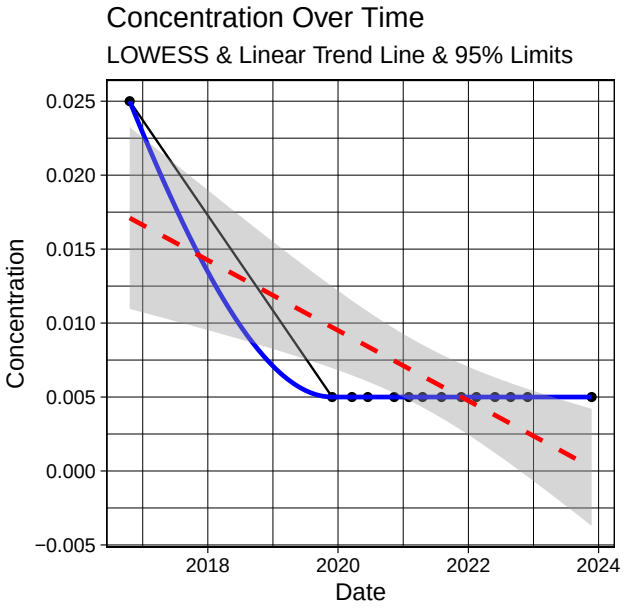
Report for ID : MW711 and Analyte : sum of PFHxS and PFOS

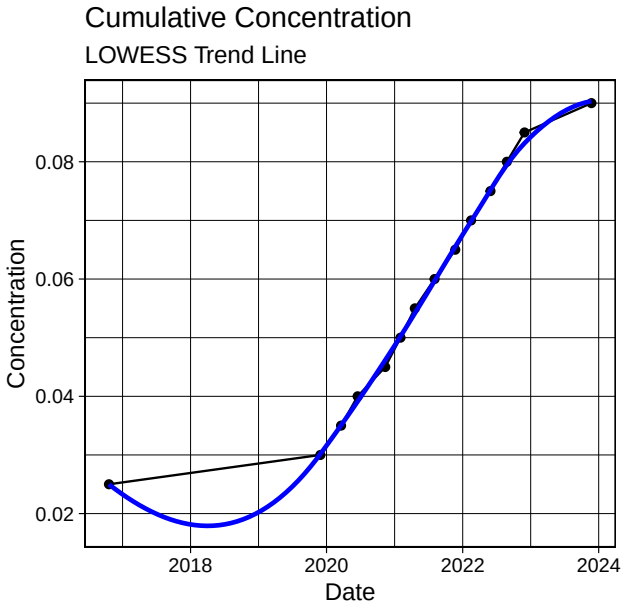




Kendall Trend Test Results Continuous	
n	14
z	-1.49
p	0.14
S	-13
varS	65
tau	-0.38
mean	0.01
sd	0.01
cov	0.83
results	STABLE

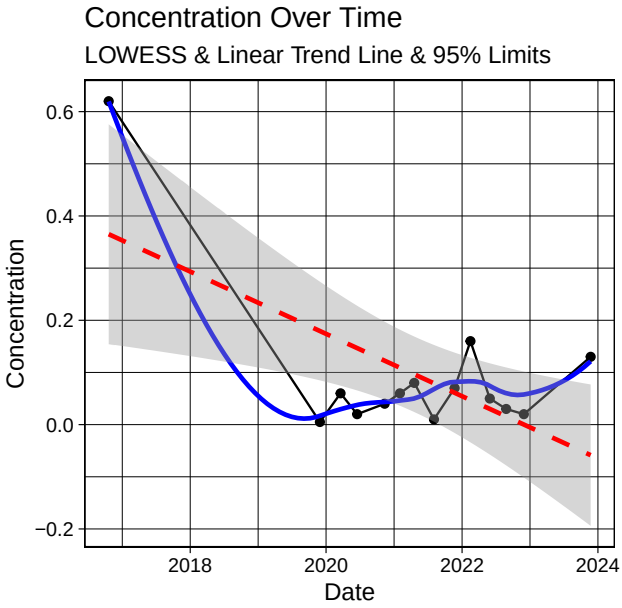
Report for ID : MW715 and Analyte : pfoa

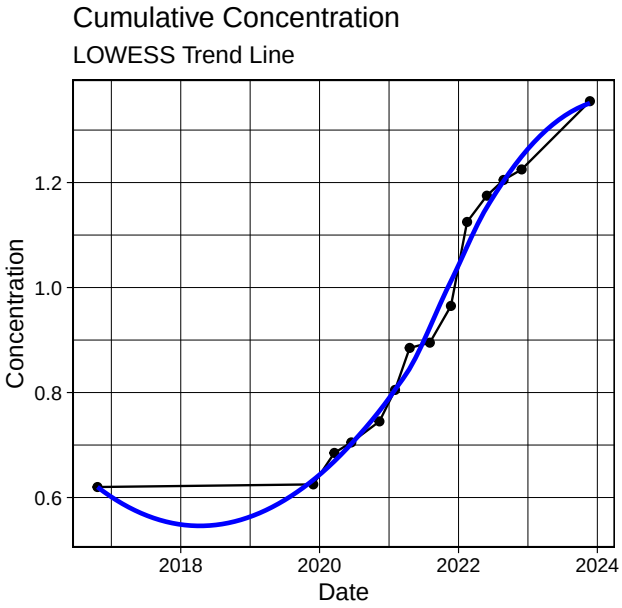




Kendall Trend Test Results Continuous	
n	14
z	0.22
p	0.83
S	5
varS	331.67
tau	0.06
mean	0.1
sd	0.16
cov	1.62
results	NO CLEAR TREND

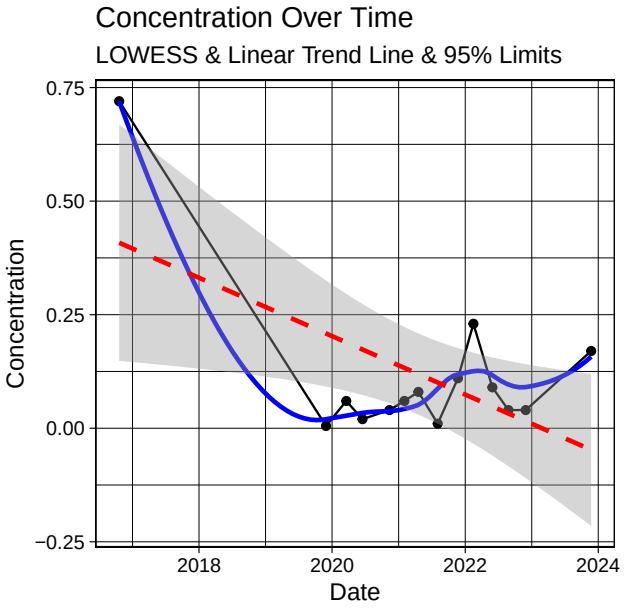
Report for ID : MW715 and Analyte : pfos

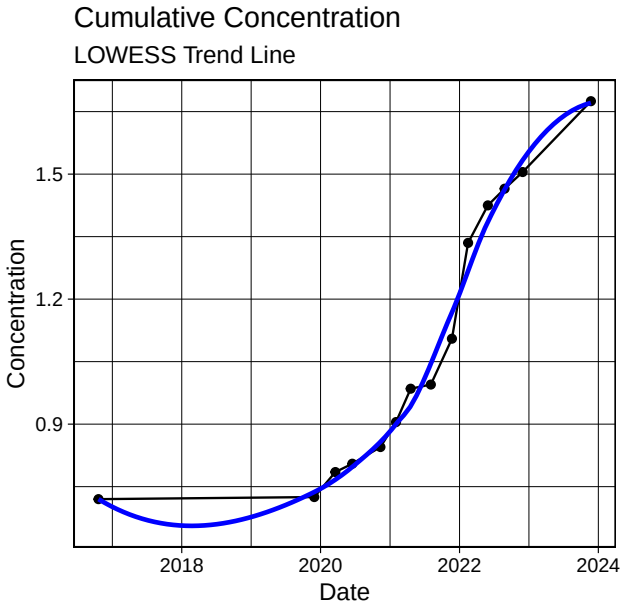




Kendall Trend Test Results Continuous	
n	14
z	0.88
p	0.38
S	17
varS	329
tau	0.19
mean	0.12
sd	0.18
cov	1.54
results	NO CLEAR TREND

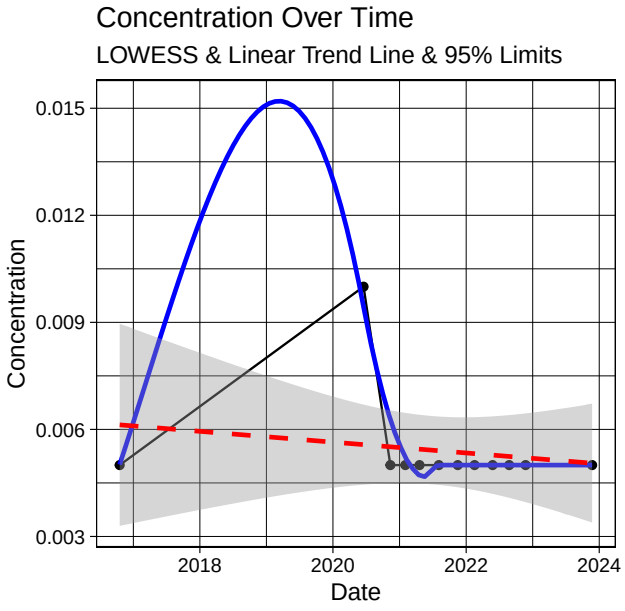
Report for ID : MW715 and Analyte : sum of PFHxS and PFOS

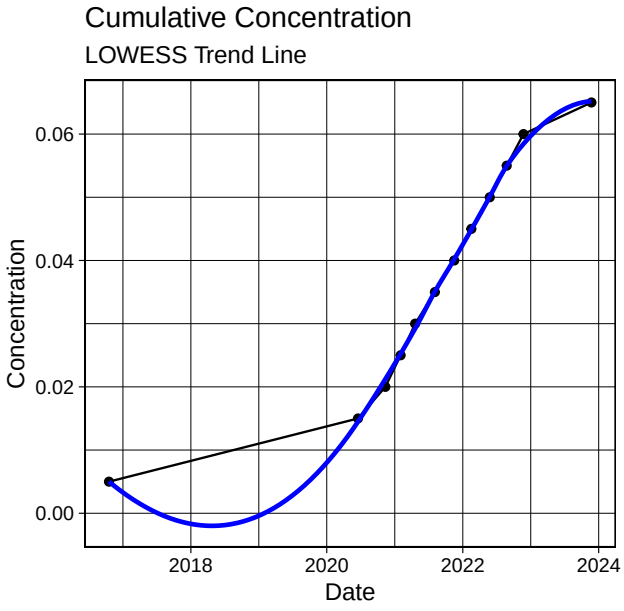




Kendall Trend Test Results Continuous	
n	12
z	-1.16
p	0.25
S	-9
varS	47.67
tau	-0.33
mean	0.01
sd	0
cov	0.27
results	STABLE

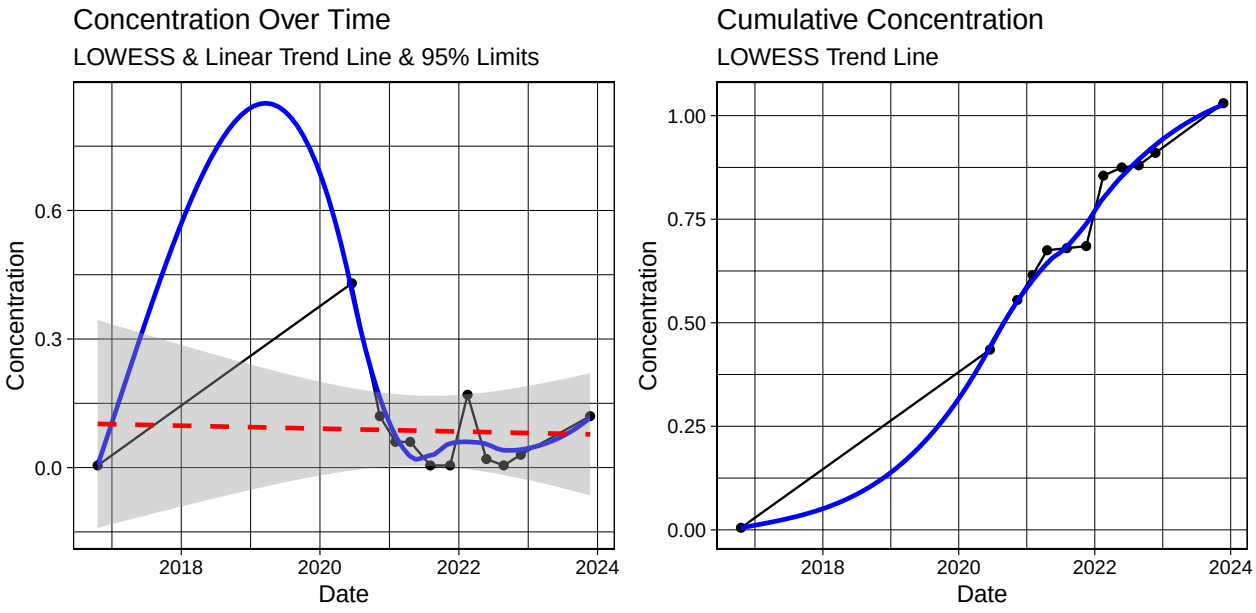
Report for ID : MW735 and Analyte : pfoa





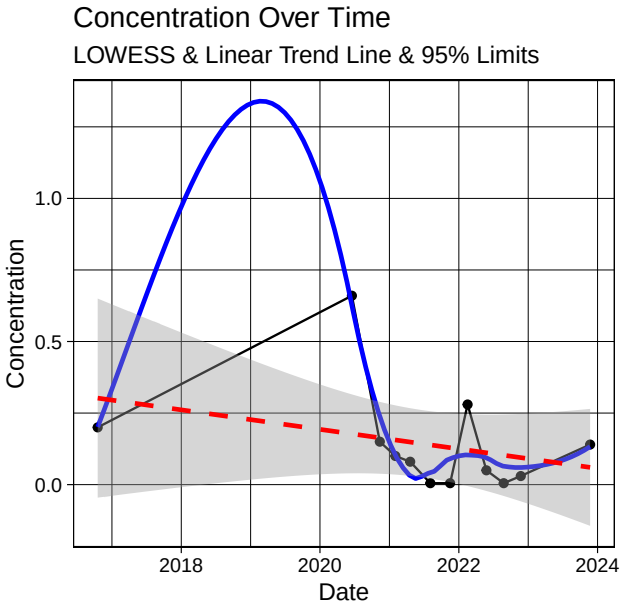
Kendall Trend Test Results Continuous	
n	12
z	-0.35
p	0.72
S	-6
varS	202
tau	-0.1
mean	0.09
sd	0.12
cov	1.42
results	NO CLEAR TREND

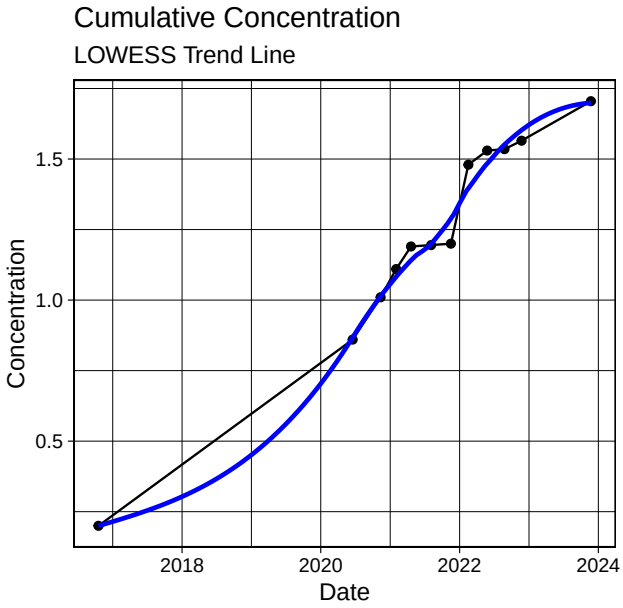
Report for ID : MW735 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	12
z	-1.66
p	0.1
S	-25
varS	209
tau	-0.39
mean	0.14
sd	0.18
cov	1.3
results	POSSIBLY DECREASING

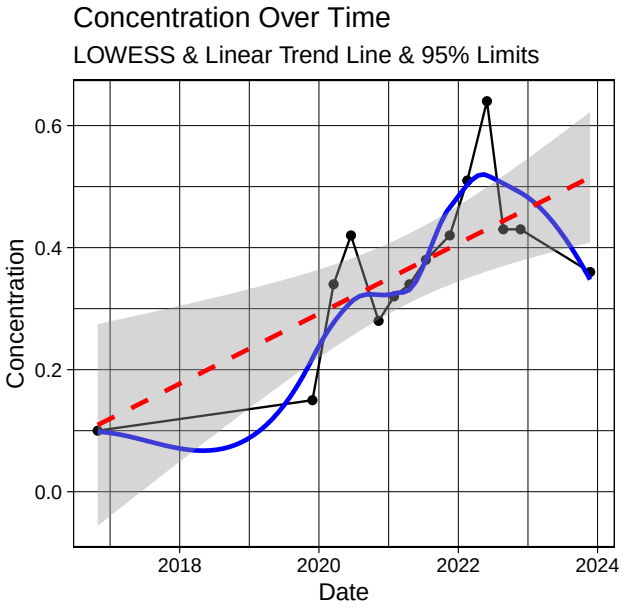
Report for ID : MW735 and Analyte : sum of PFHxS and PFOS

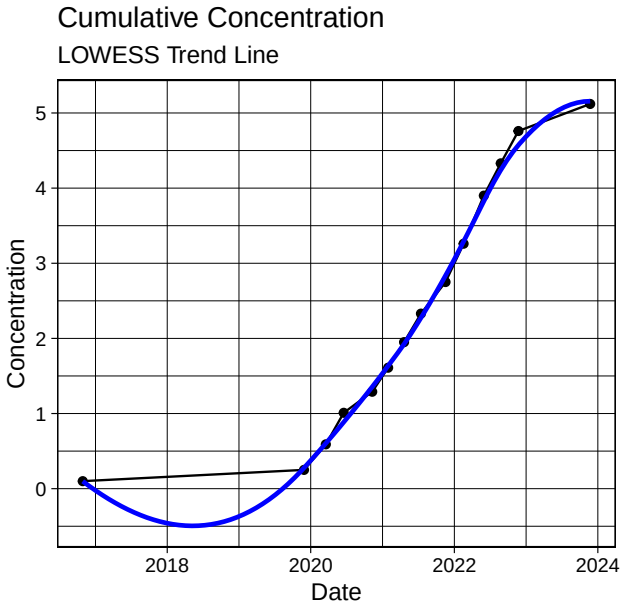




Kendall Trend Test Results Continuous	
n	14
z	2.91
p	0
S	54
varS	330.67
tau	0.6
mean	0.37
sd	0.14
cov	0.37
results	INCREASING

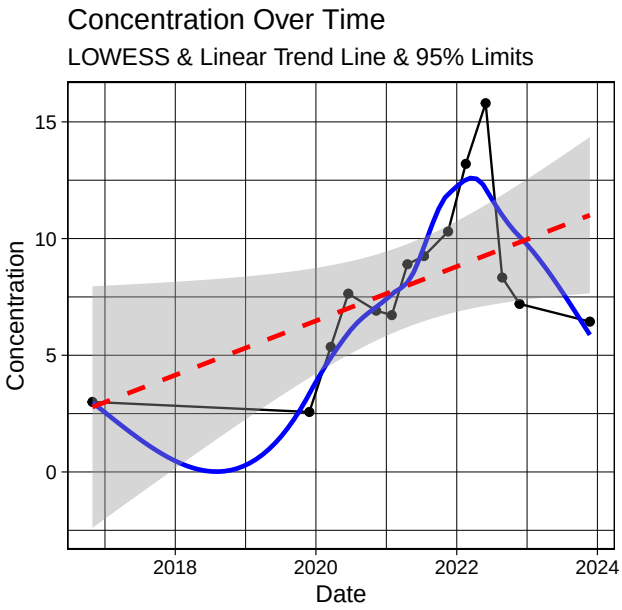
Report for ID : MW739 and Analyte : pfoa

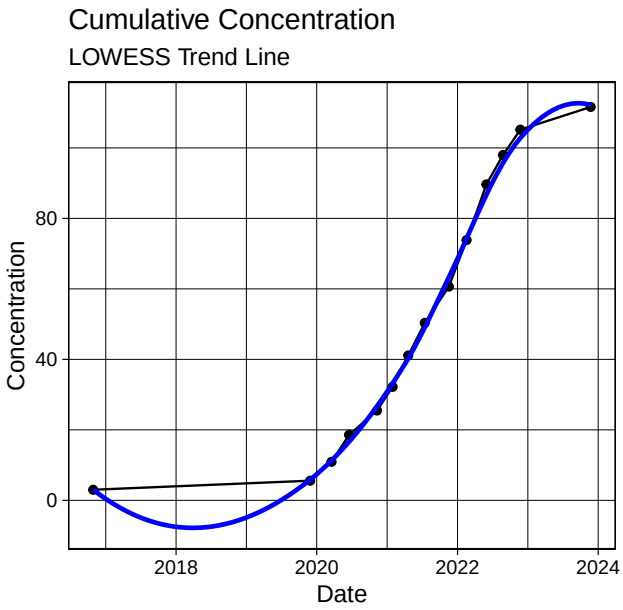




Kendall Trend Test Results Continuous	
n	14
z	2.08
p	0.04
S	39
varS	333.67
tau	0.43
mean	7.97
sd	3.54
cov	0.44
results	INCREASING

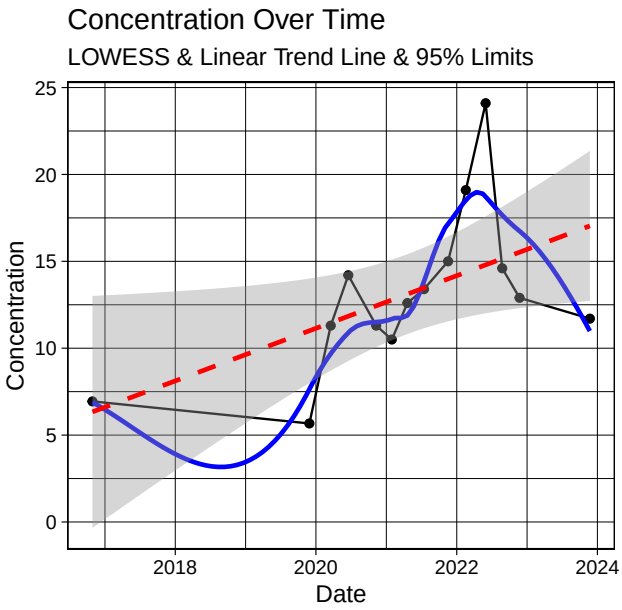
Report for ID : MW739 and Analyte : pfos

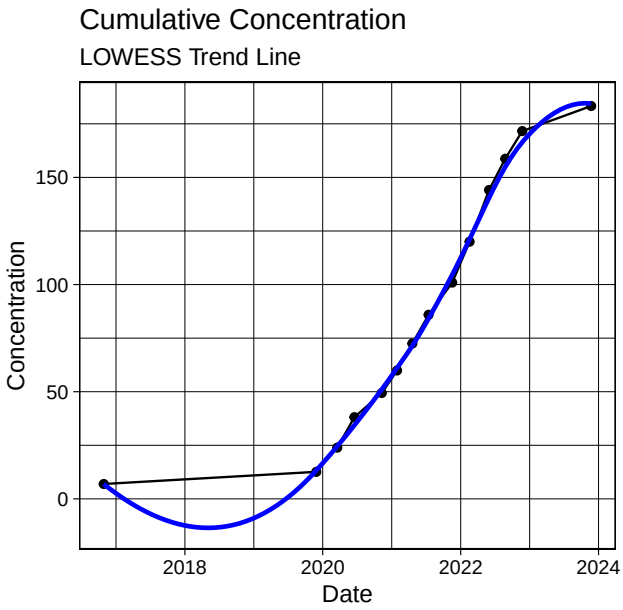




Kendall Trend Test Results Continuous	
n	14
z	2.25
p	0.02
S	42
varS	332.67
tau	0.46
mean	13.09
sd	4.58
cov	0.35
results	INCREASING

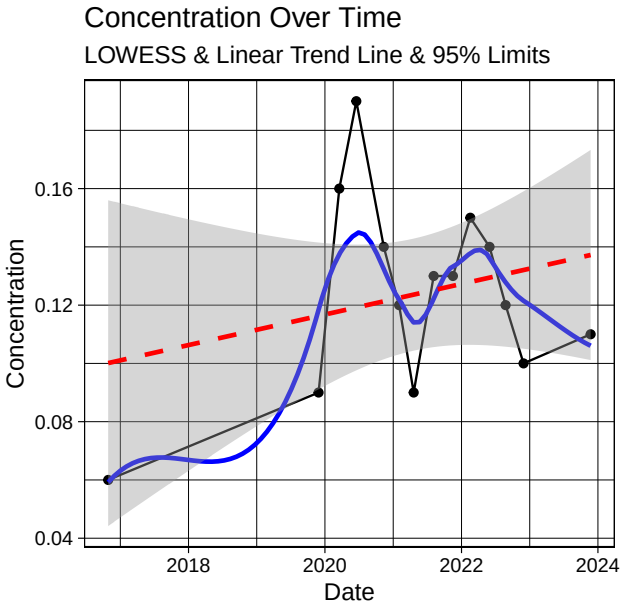
Report for ID : MW739 and Analyte : sum of PFHxS and PFOS

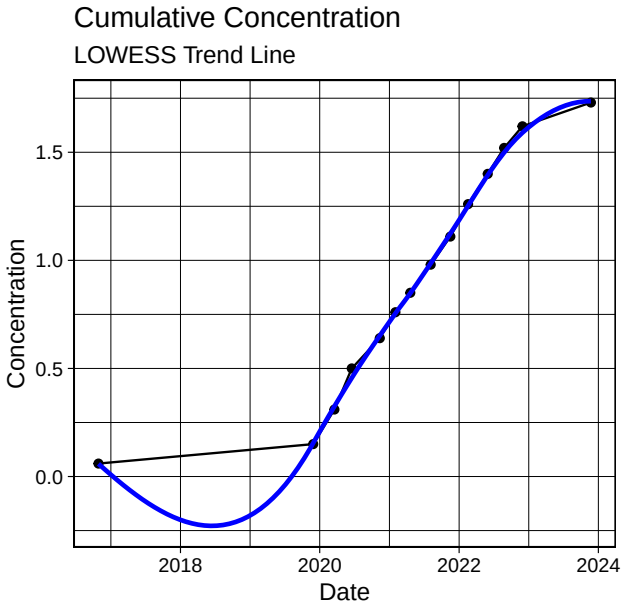




Kendall Trend Test Results Continuous	
n	14
z	-0.11
p	0.91
S	-3
varS	329.67
tau	-0.03
mean	0.12
sd	0.03
cov	0.27
results	STABLE

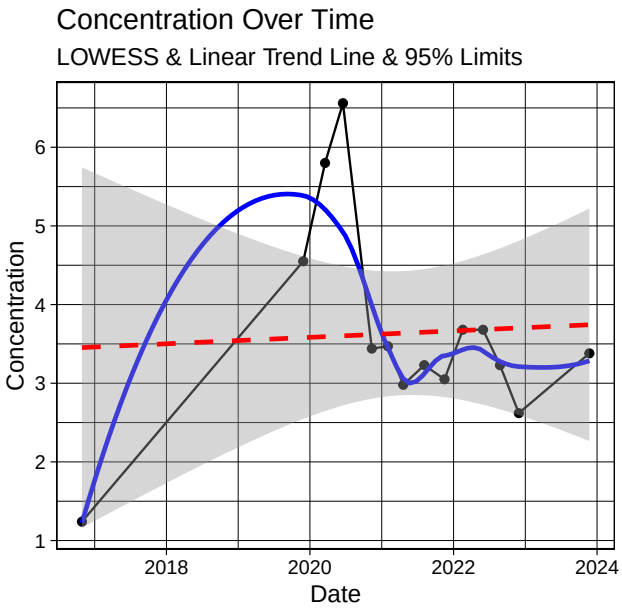
Report for ID : MW740 and Analyte : pfoa

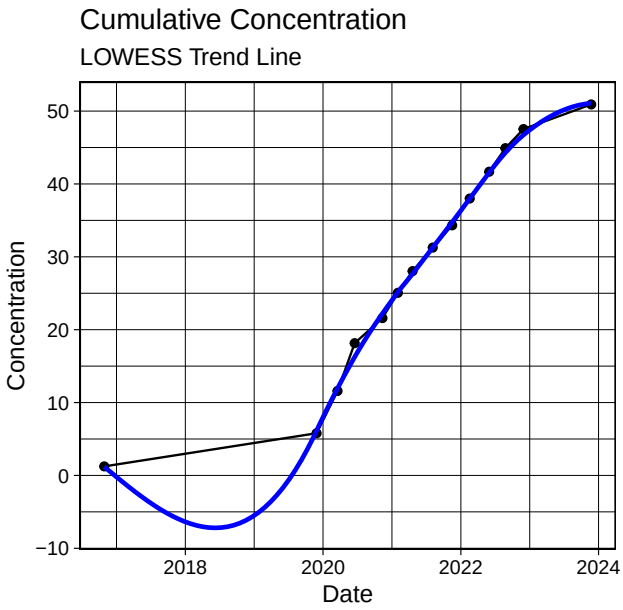




Kendall Trend Test Results Continuous	
n	14
z	-0.88
p	0.38
S	-17
varS	331.67
tau	-0.19
mean	3.64
sd	1.3
cov	0.36
results	STABLE

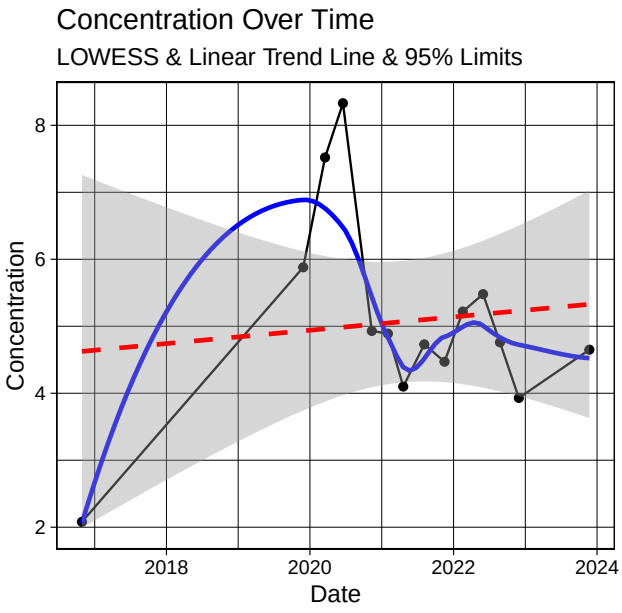
Report for ID : MW740 and Analyte : pfos

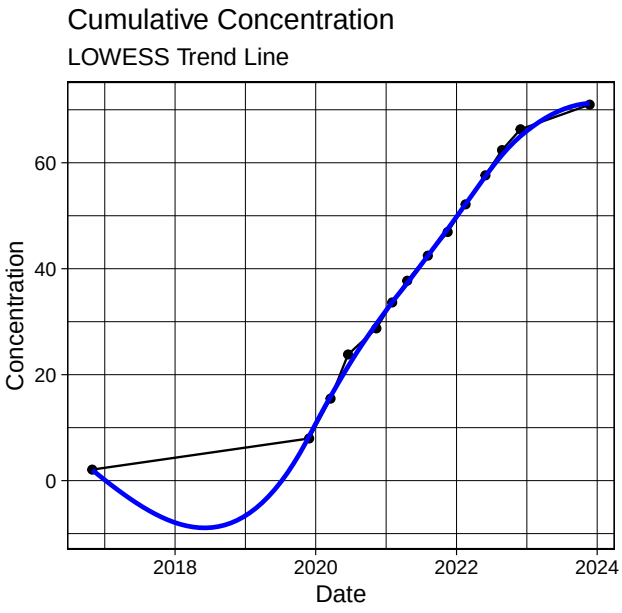




Kendall Trend Test Results Continuous	
n	14
z	-1.09
p	0.27
S	-21
varS	333.67
tau	-0.23
mean	5.07
sd	1.51
cov	0.3
results	STABLE

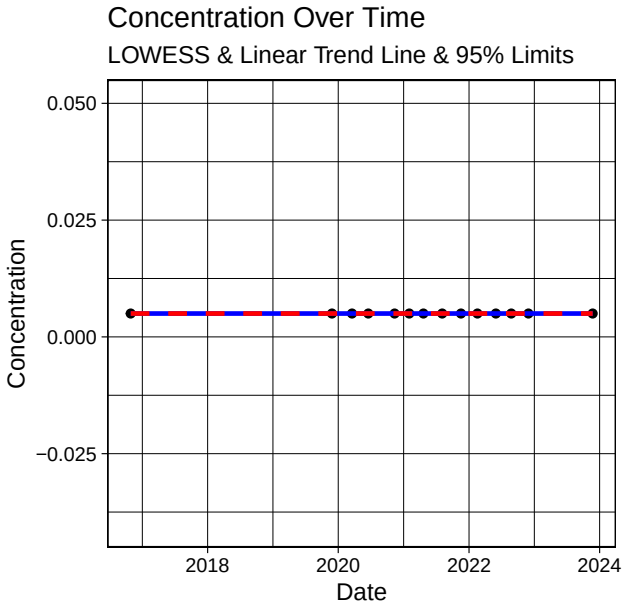
Report for ID : MW740 and Analyte : sum of PFHxS and PFOS

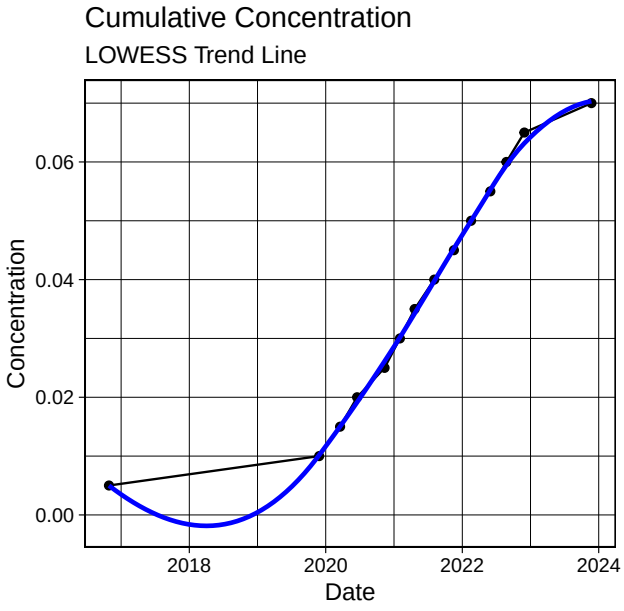




Kendall Trend Test Results Continuous	
n	14
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

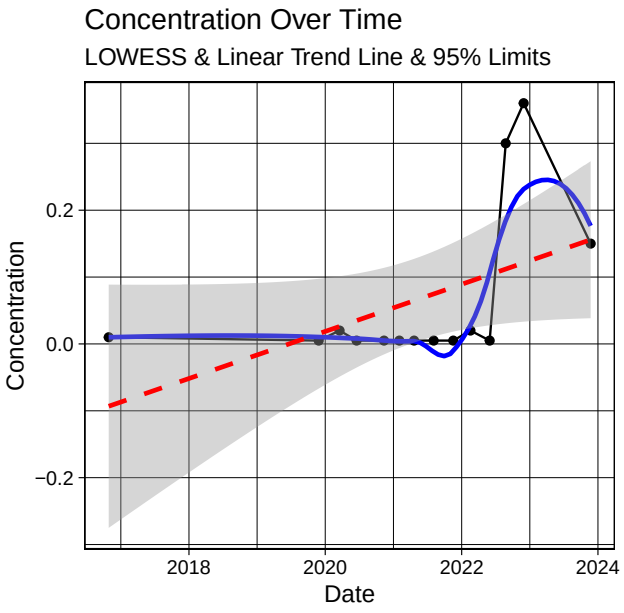
Report for ID : MW741 and Analyte : pfoa

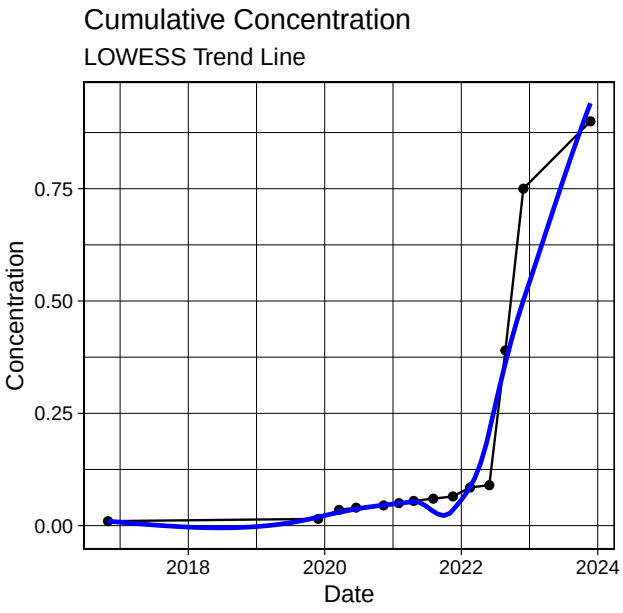




Kendall Trend Test Results Continuous	
n	14
z	1.53
p	0.13
S	26
varS	267.33
tau	0.35
mean	0.06
sd	0.12
cov	1.86
results	NO CLEAR TREND

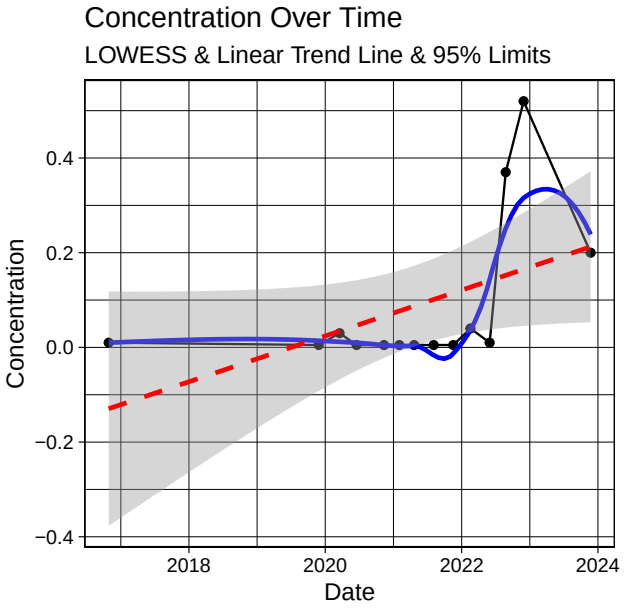
Report for ID : MW741 and Analyte : pfos

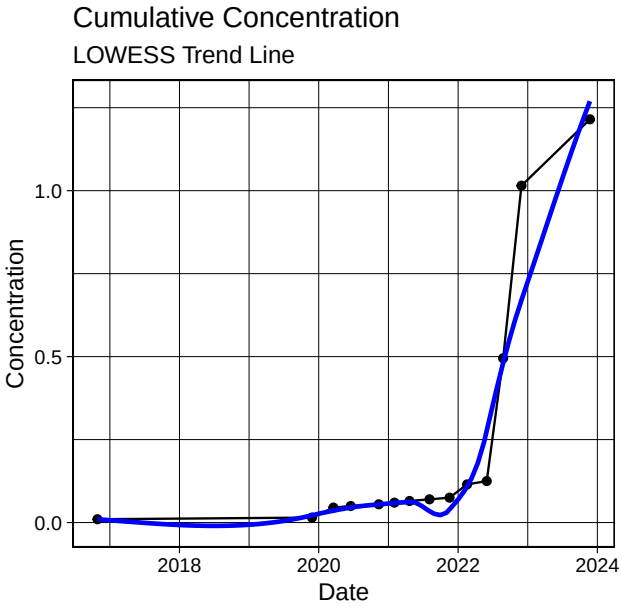




Kendall Trend Test Results Continuous	
n	14
z	2
p	0.05
S	35
varS	288.33
tau	0.44
mean	0.09
sd	0.16
cov	1.88
results	INCREASING

Report for ID : MW741 and Analyte : sum of PFHxS and PFOS





Trend Report

Report Date & Time: 2024-02-09 04:20:09

Data File Name: South-west_Area_23_Open_UCL_Input_V1.csv

Report Title: Groundwater Trend Data - Southwest_Area_23

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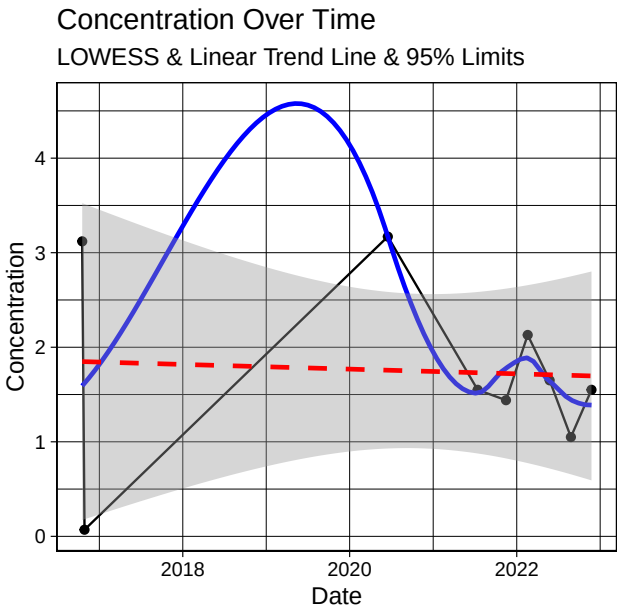
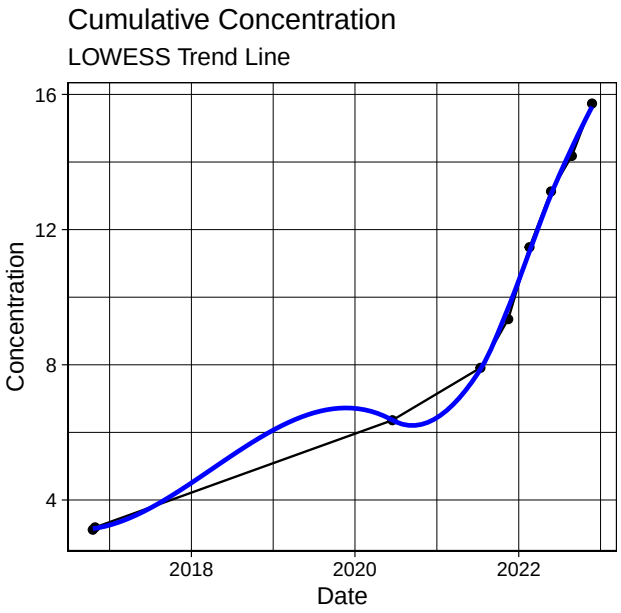
Kendall Trend Test Results Continuous	
n	9
z	-0.63
p	0.53
S	-7
varS	91
tau	-0.2
mean	1.75
sd	0.97
cov	0.56
results	STABLE

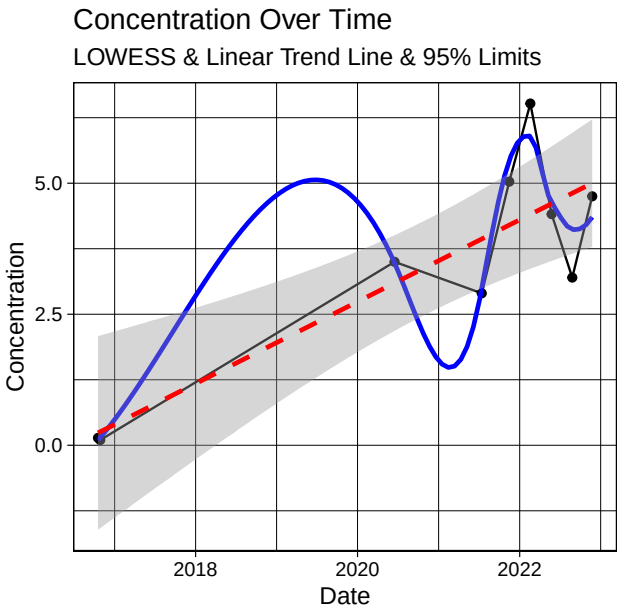
Report for ID : MW325 and Analyte : pfoa

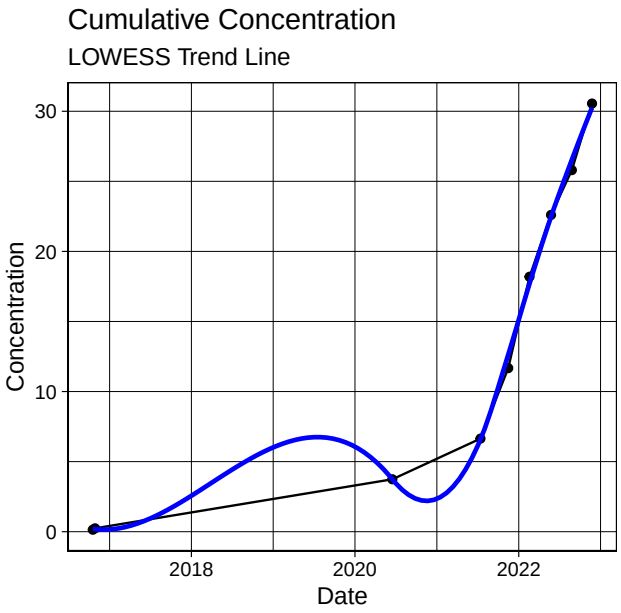




Kendall Trend Test Results Continuous	
n	9
z	1.56
p	0.12
S	16
varS	92
tau	0.44
mean	3.39
sd	2.15
cov	0.63
results	NO CLEAR TREND

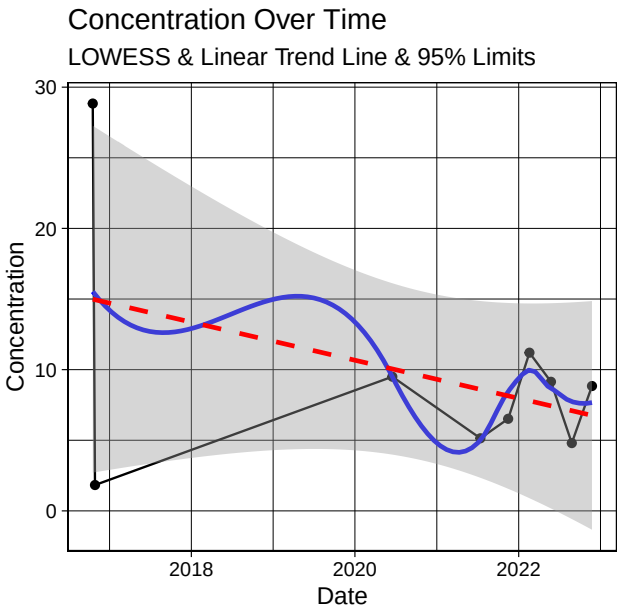
Report for ID : MW325 and Analyte : pfos

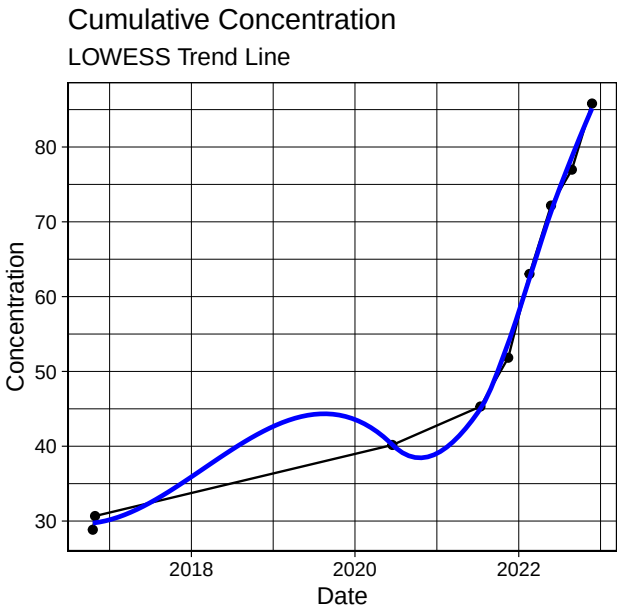




Kendall Trend Test Results Continuous	
n	9
z	-0.31
p	0.75
S	-4
varS	92
tau	-0.11
mean	9.53
sd	7.8
cov	0.82
results	STABLE

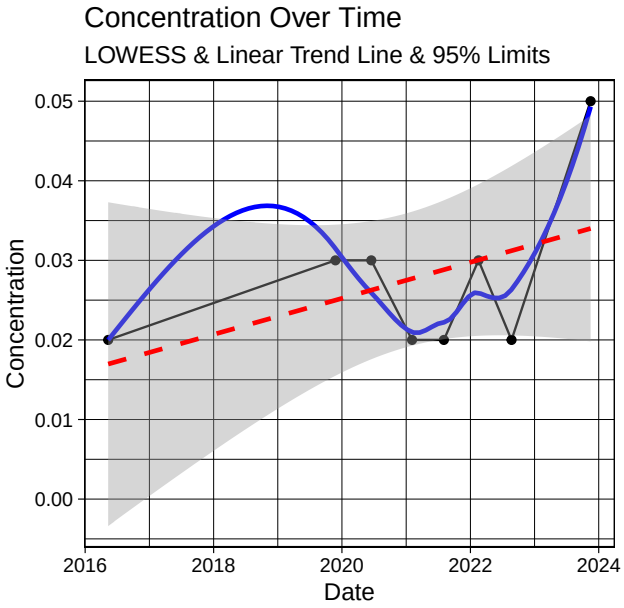
Report for ID : MW325 and Analyte : sum of PFHxS and PFOS

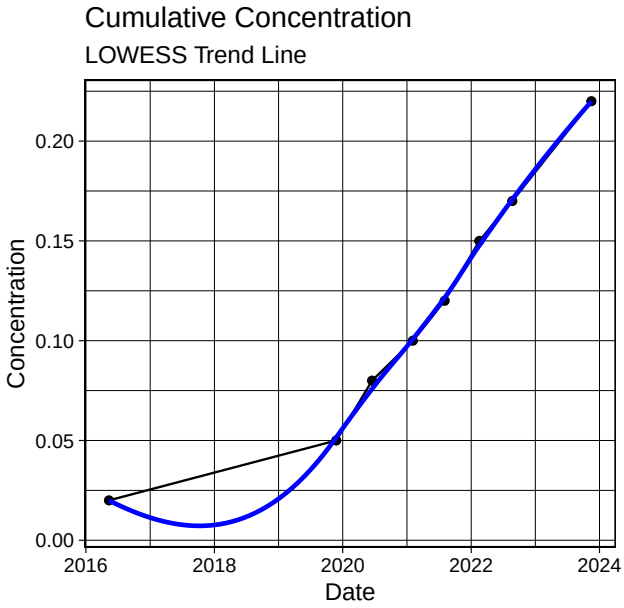




Kendall Trend Test Results Continuous	
n	8
z	0.55
p	0.58
S	5
varS	53
tau	0.22
mean	0.03
sd	0.01
cov	0.38
results	NO CLEAR TREND

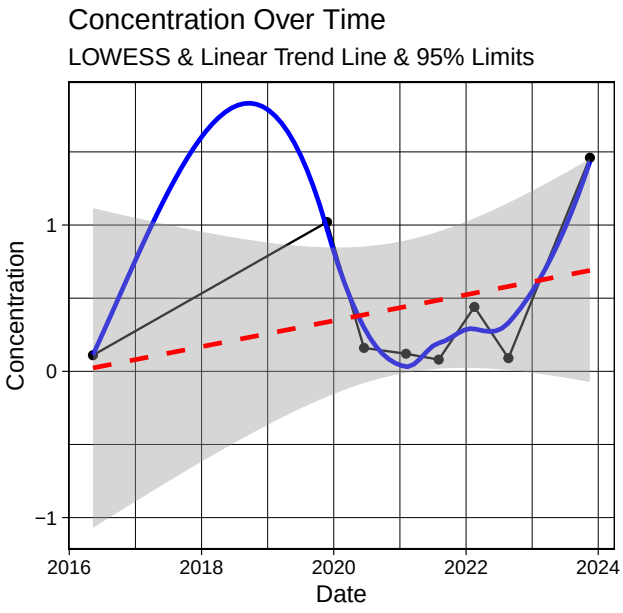
Report for ID : MW603 and Analyte : pfoa

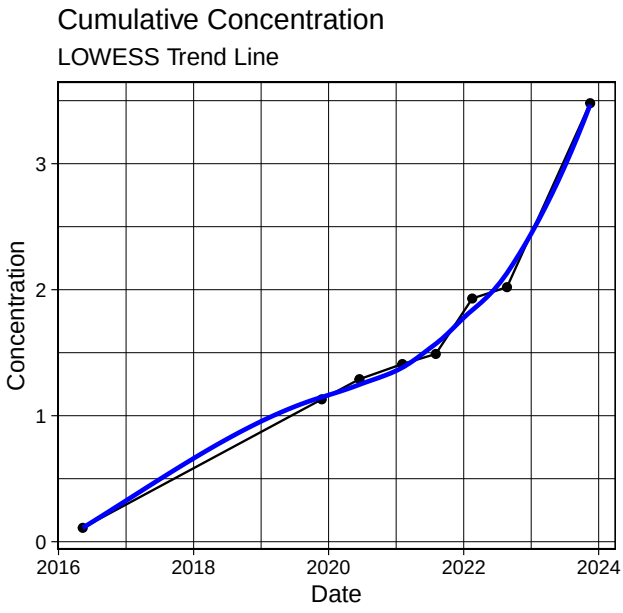




Kendall Trend Test Results Continuous	
n	8
z	0.12
p	0.9
S	2
varS	65.33
tau	0.07
mean	0.44
sd	0.52
cov	1.2
results	NO CLEAR TREND

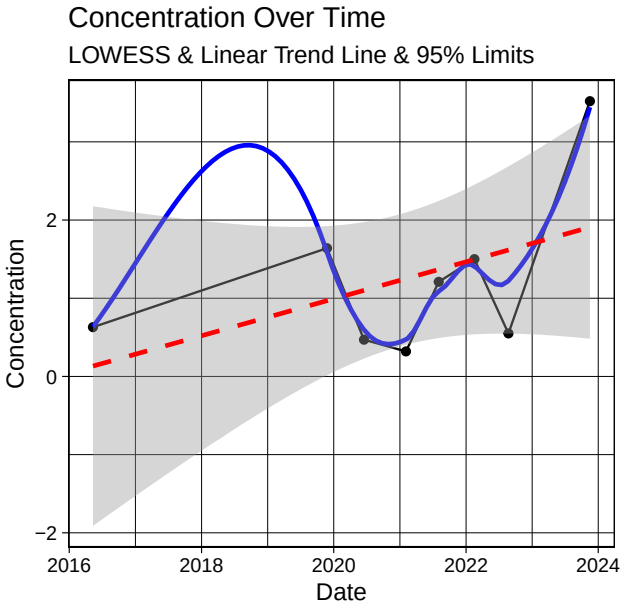
Report for ID : MW603 and Analyte : pfos

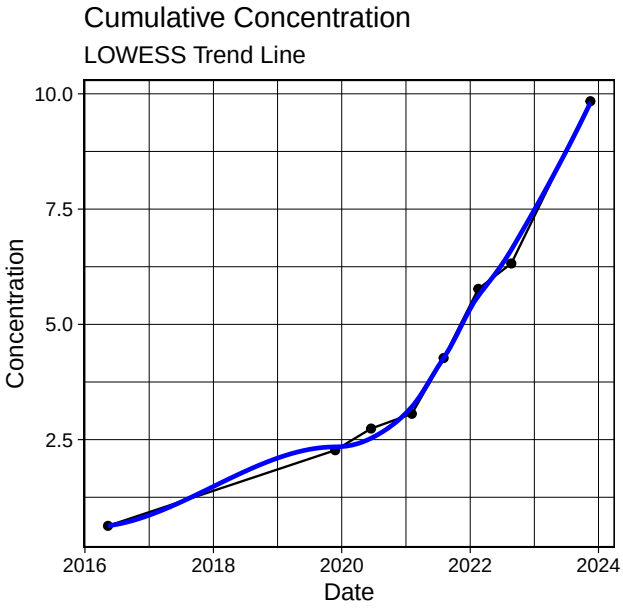




Kendall Trend Test Results Continuous	
n	8
z	0.62
p	0.54
S	6
varS	65.33
tau	0.21
mean	1.23
sd	1.05
cov	0.85
results	NO CLEAR TREND

Report for ID : MW603 and Analyte : sum of PFHxS and PFOS





Trend Report

Report Date & Time: 2024-02-09 04:23:41

Data File Name: Remaining_Offsite_Wells_23_Open_UCL_Input_V1.csv

Report Title: Groundwater Trend Data - Remaining_Offsite_Wells_23

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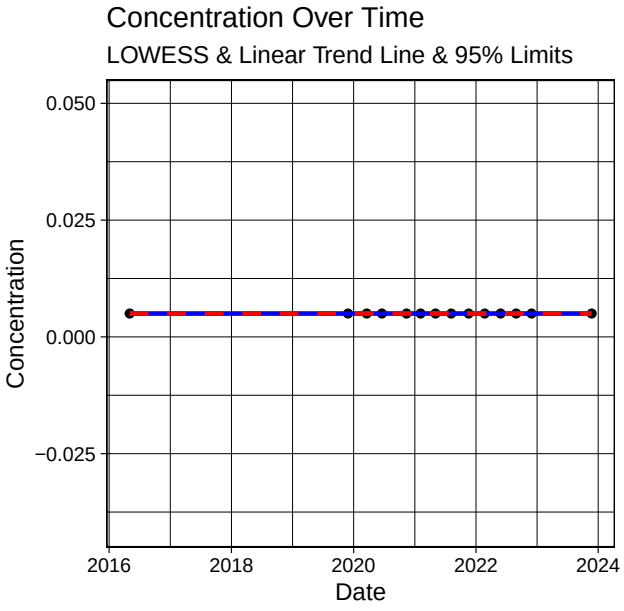
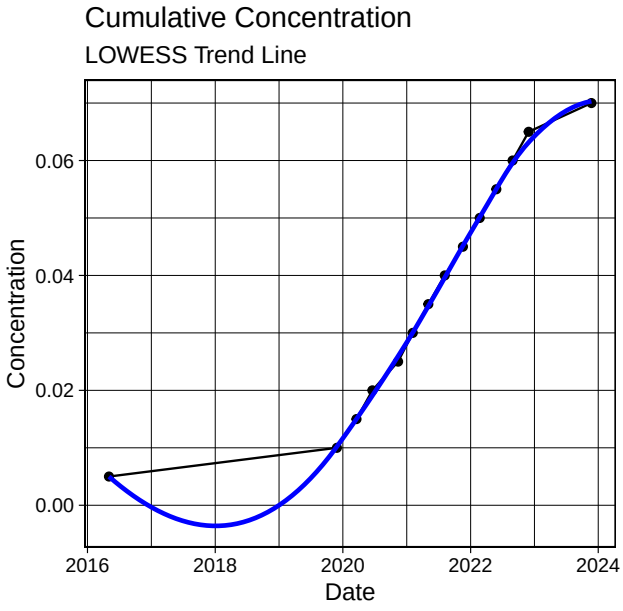
Kendall Trend Test Results Continuous	
n	14
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

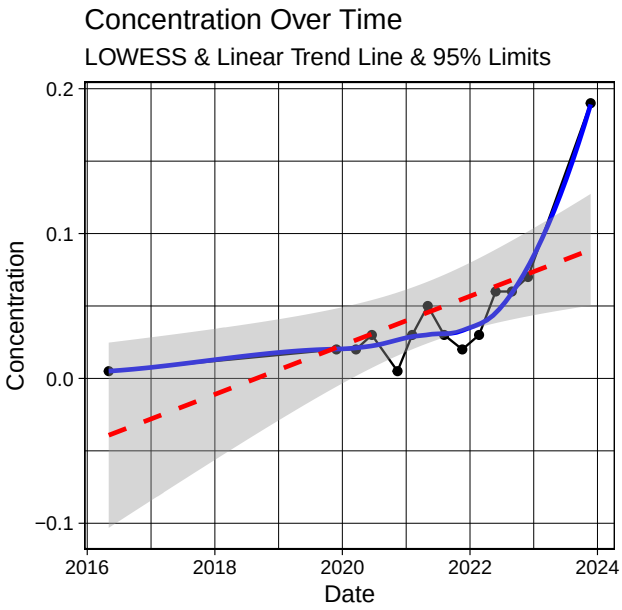
Report for ID : MW008 and Analyte : pfoa

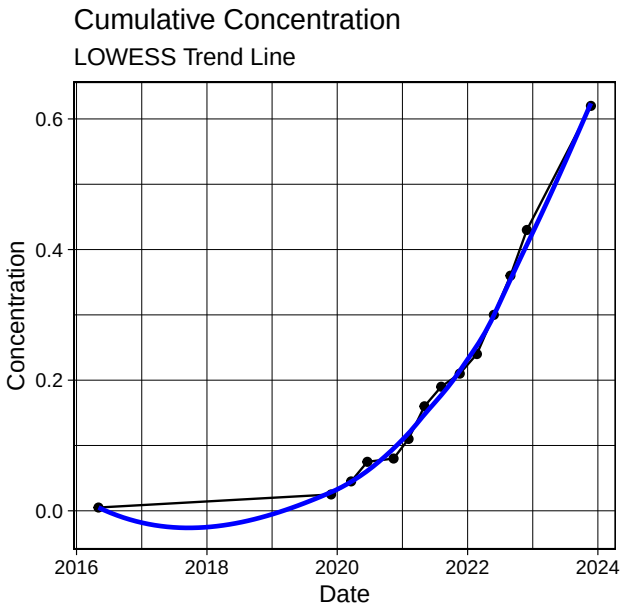




Kendall Trend Test Results Continuous	
n	14
z	3.41
p	0
S	62
varS	319.33
tau	0.73
mean	0.04
sd	0.05
cov	1.05
results	INCREASING

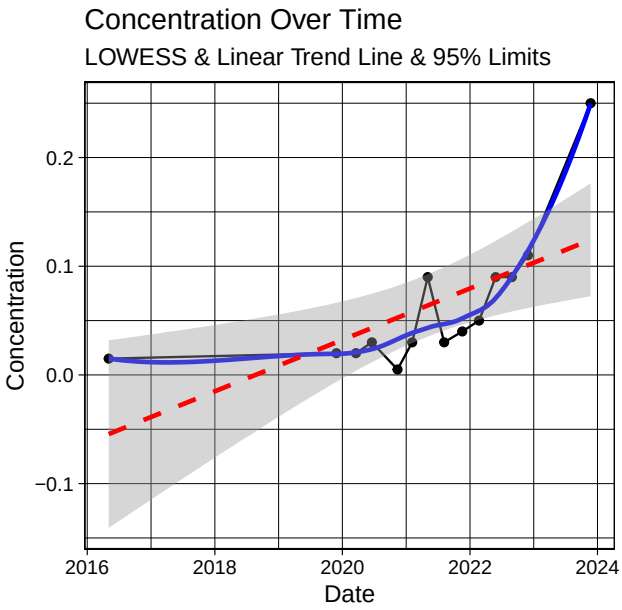
Report for ID : MW008 and Analyte : pfos

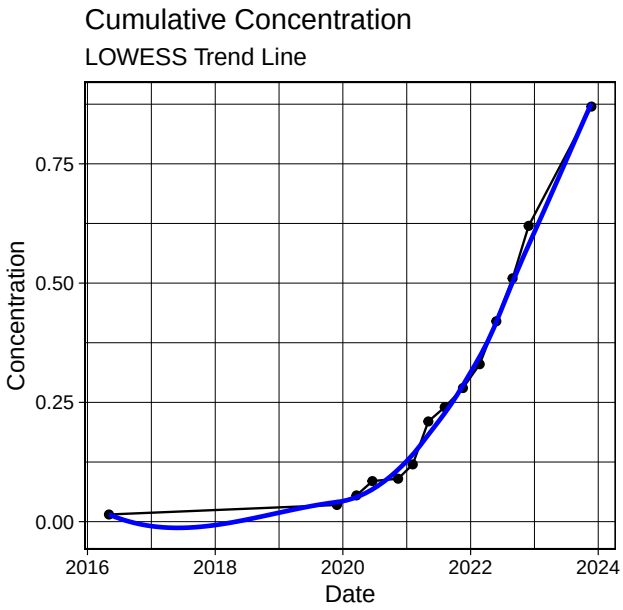




Kendall Trend Test Results Continuous	
n	14
z	3.83
p	0
S	70
varS	325.33
tau	0.8
mean	0.06
sd	0.06
cov	1.02
results	INCREASING

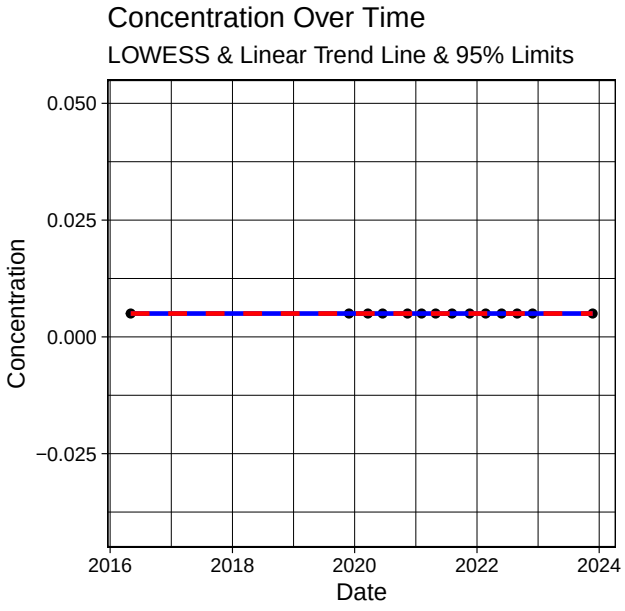
Report for ID : MW008 and Analyte : sum of PFHxS and PFOS

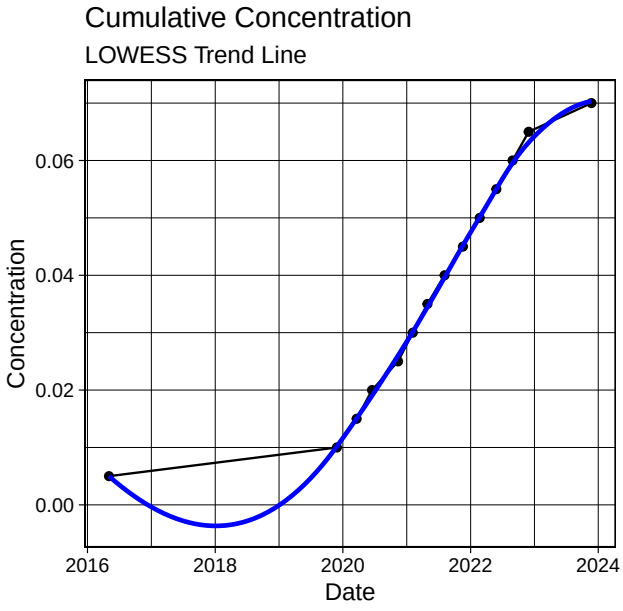




Kendall Trend Test Results Continuous	
n	14
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

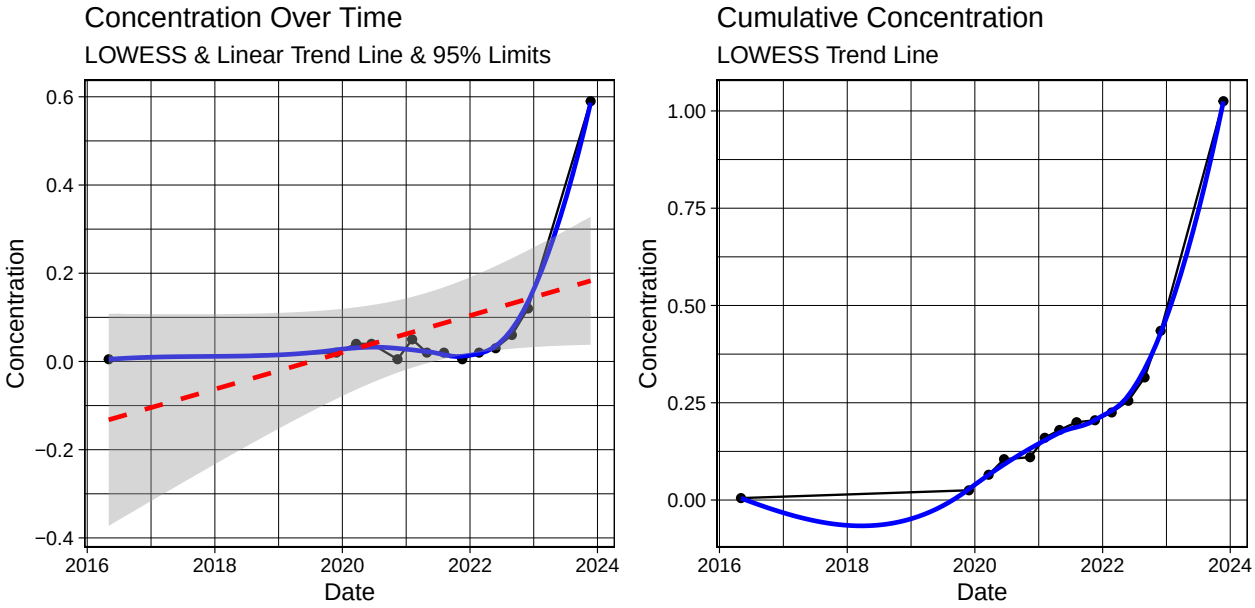
Report for ID : MW009 and Analyte : pfoa





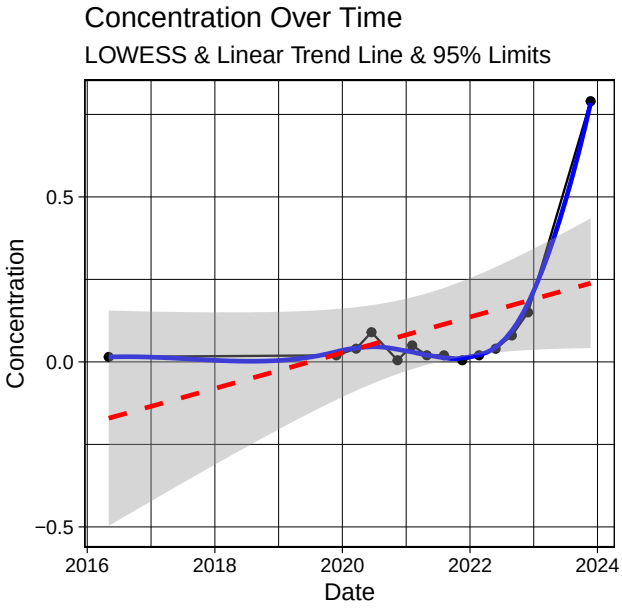
Kendall Trend Test Results Continuous	
n	14
z	2.12
p	0.03
S	39
varS	320.33
tau	0.45
mean	0.07
sd	0.15
cov	2.07
results	INCREASING

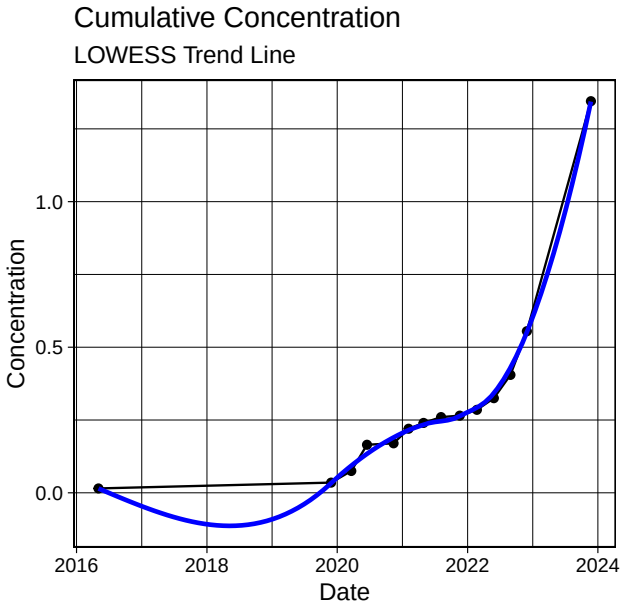
Report for ID : MW009 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	1.89
p	0.06
S	35
varS	323
tau	0.4
mean	0.1
sd	0.2
cov	2.12
results	POSSIBLY INCREASING

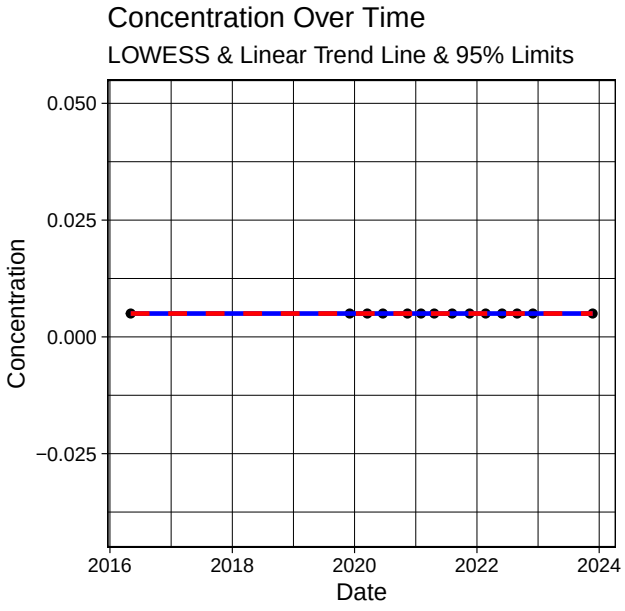
Report for ID : MW009 and Analyte : sum of PFHxS and PFOS

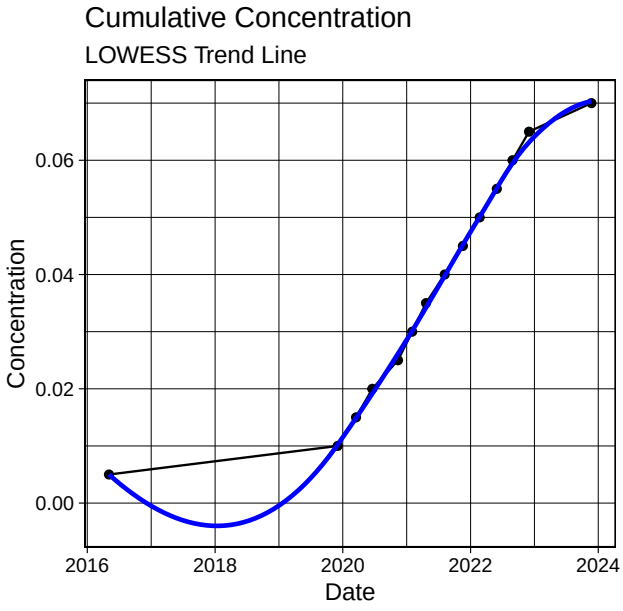




Kendall Trend Test Results Continuous	
n	14
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

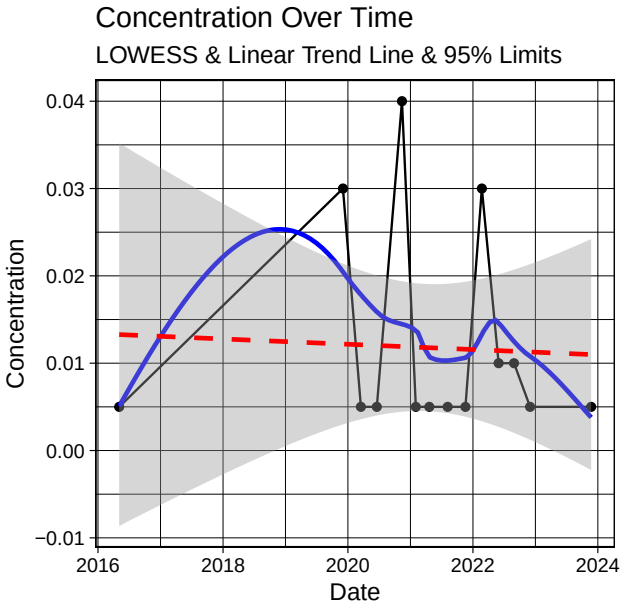
Report for ID : MW010 and Analyte : pfoa

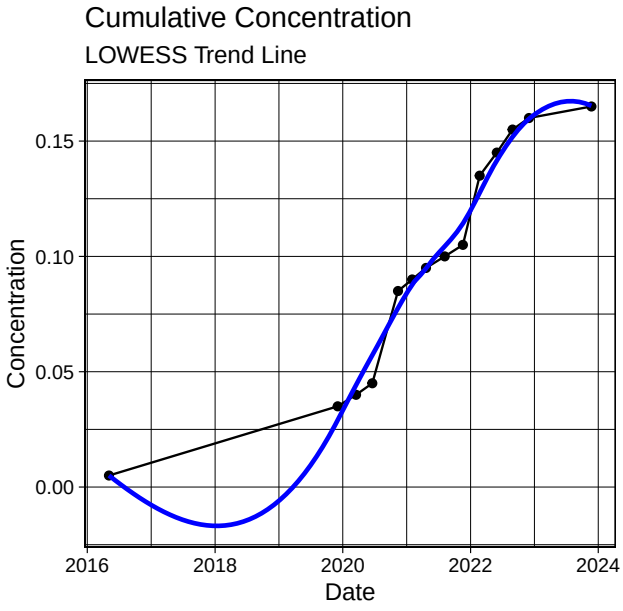




Kendall Trend Test Results Continuous	
n	14
z	0
p	1
S	-1
varS	239.67
tau	-0.01
mean	0.01
sd	0.01
cov	1.02
results	NO CLEAR TREND

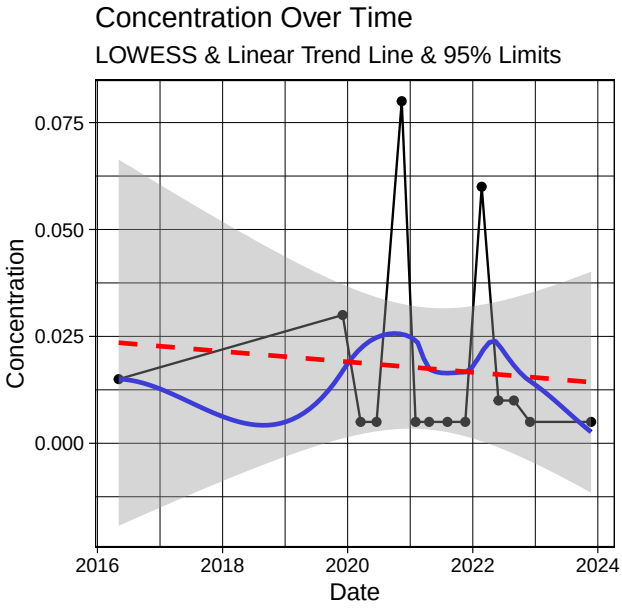
Report for ID : MW010 and Analyte : pfos

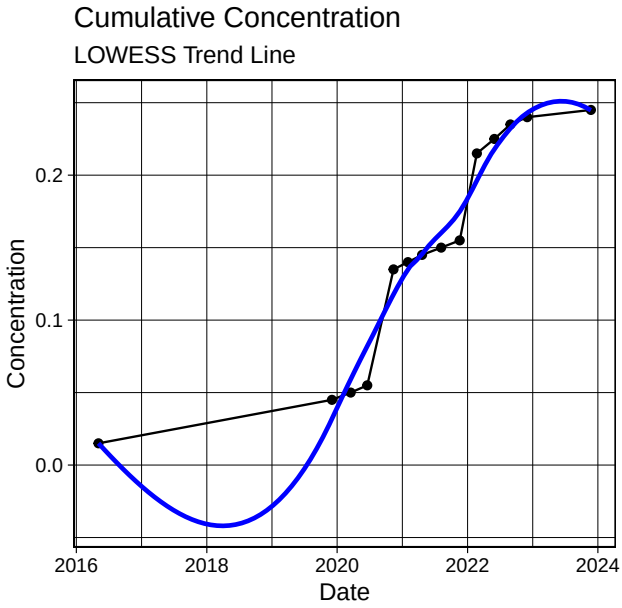




Kendall Trend Test Results Continuous	
n	14
z	-0.67
p	0.5
S	-12
varS	267.33
tau	-0.16
mean	0.02
sd	0.02
cov	1.35
results	NO CLEAR TREND

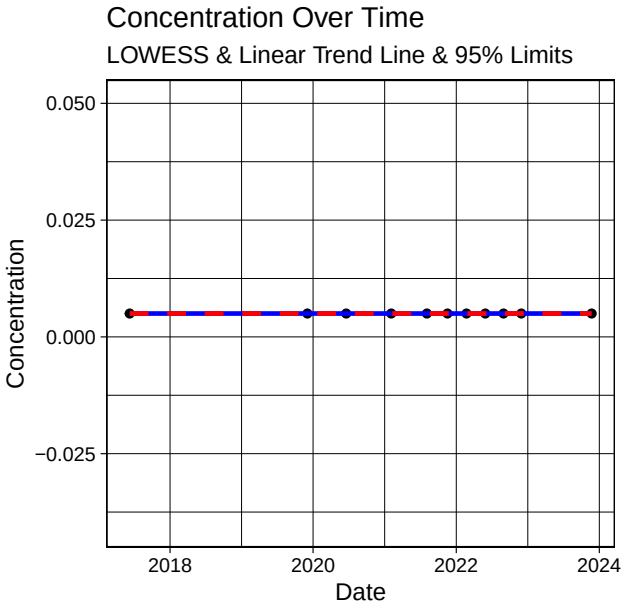
Report for ID : MW010 and Analyte : sum of PFHxS and PFOS

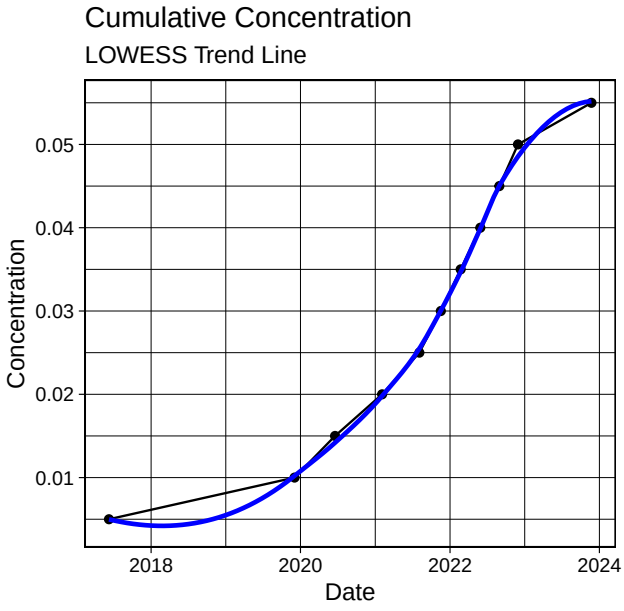




Kendall Trend Test Results Continuous	
n	11
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

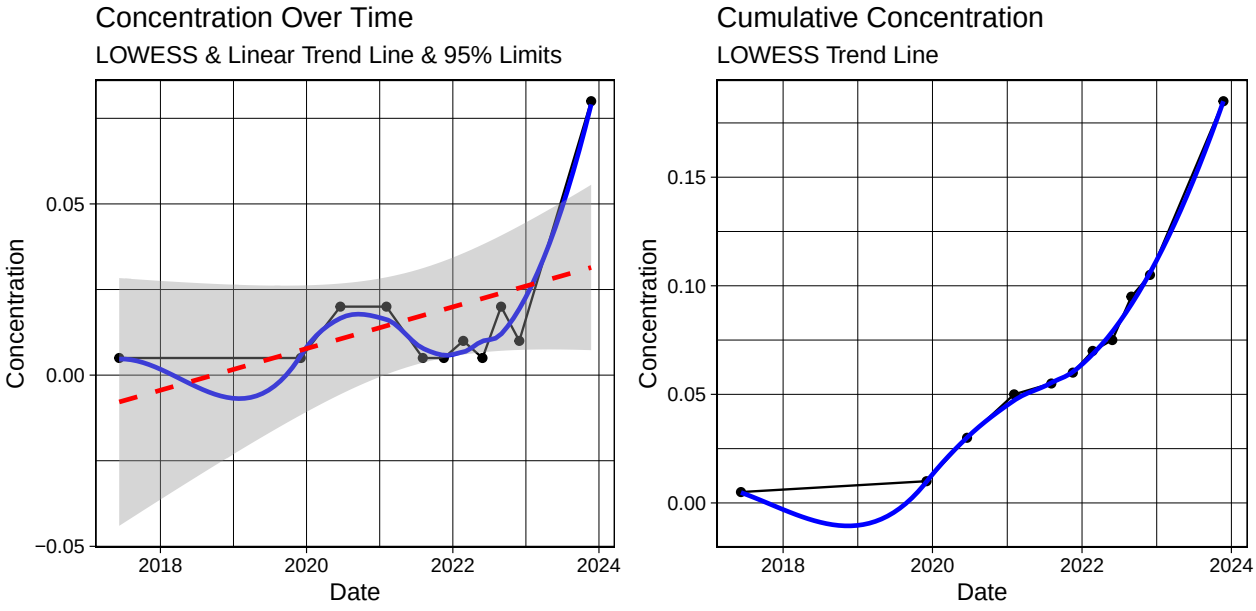
Report for ID : MW015 and Analyte : pfoa





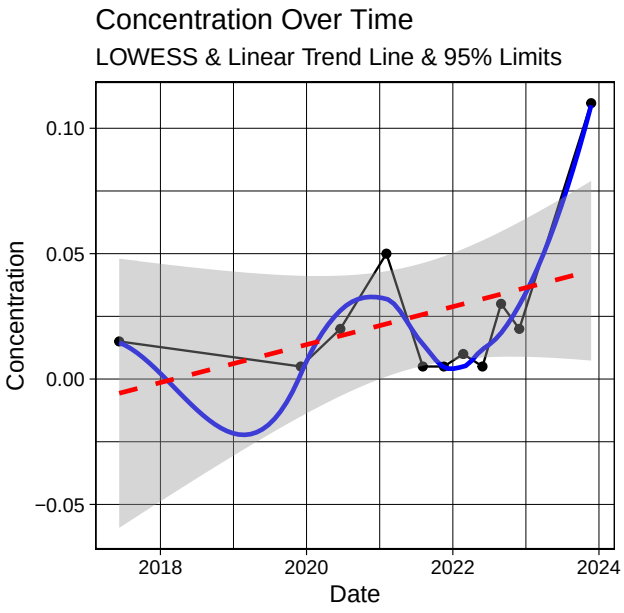
Kendall Trend Test Results Continuous	
n	11
z	1.33
p	0.18
S	17
varS	143.67
tau	0.36
mean	0.02
sd	0.02
cov	1.3
results	NO CLEAR TREND

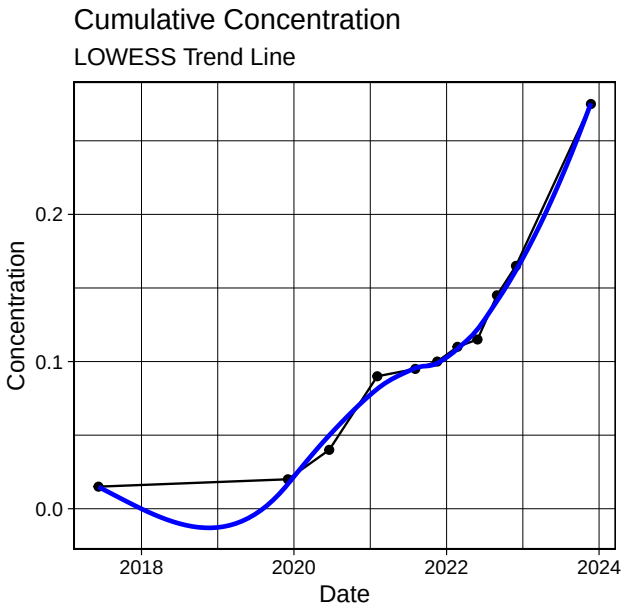
Report for ID : MW015 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	11
z	1.04
p	0.3
S	14
varS	155.33
tau	0.27
mean	0.03
sd	0.03
cov	1.26
results	NO CLEAR TREND

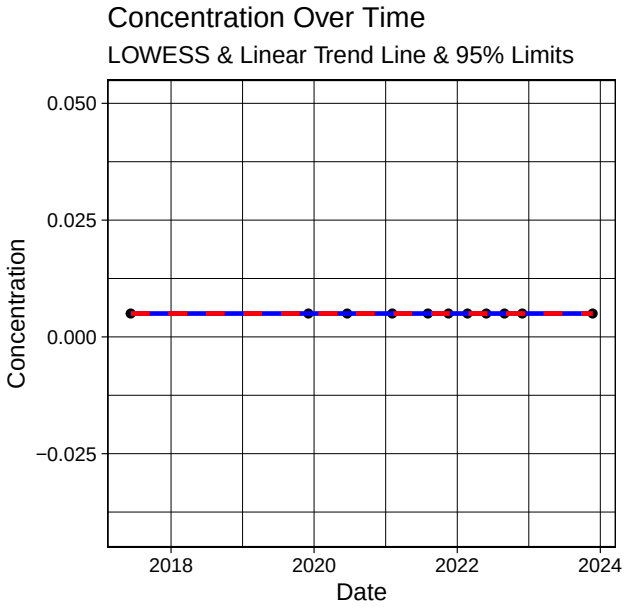
Report for ID : MW015 and Analyte : sum of PFHxS and PFOS

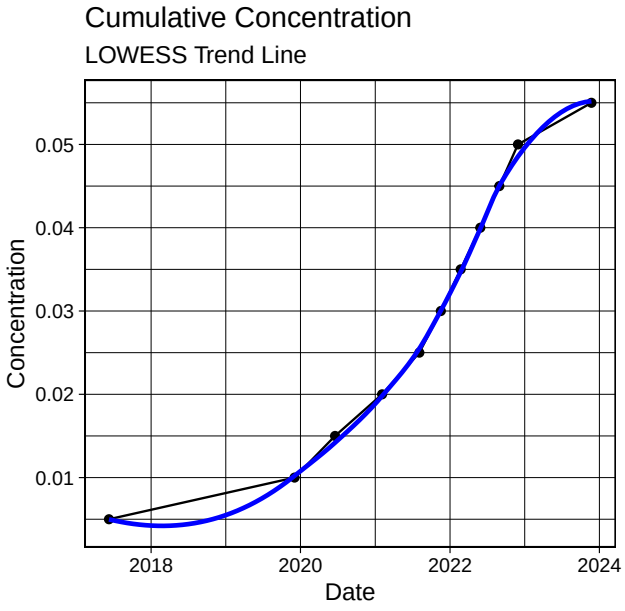




Kendall Trend Test Results Continuous	
n	11
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

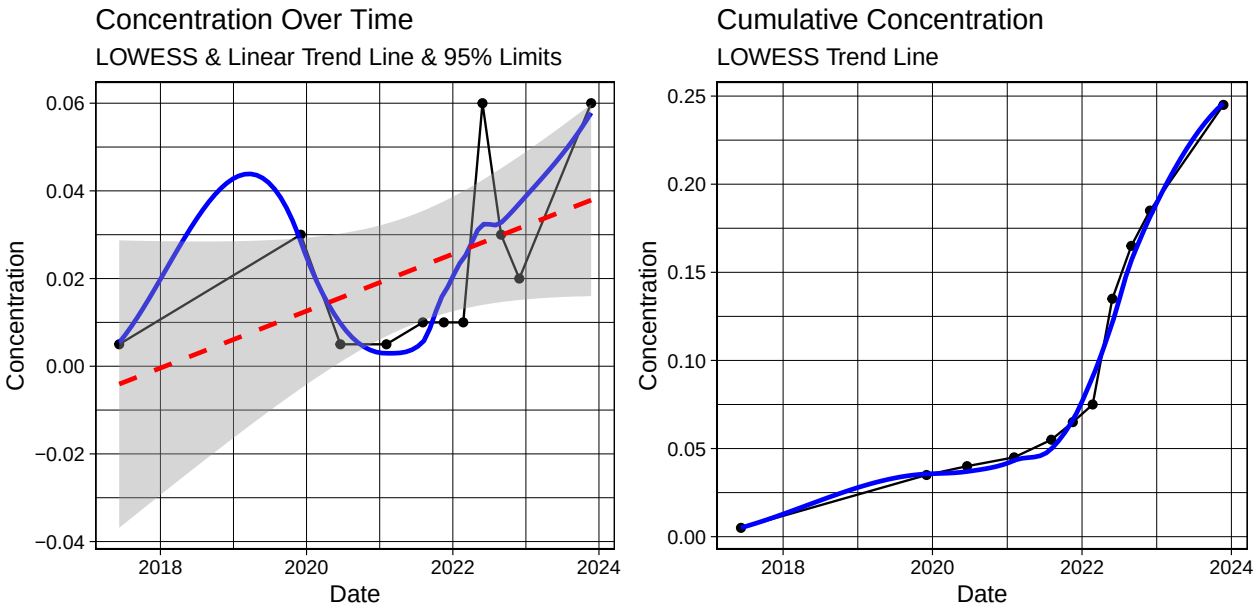
Report for ID : MW016 and Analyte : pfoa





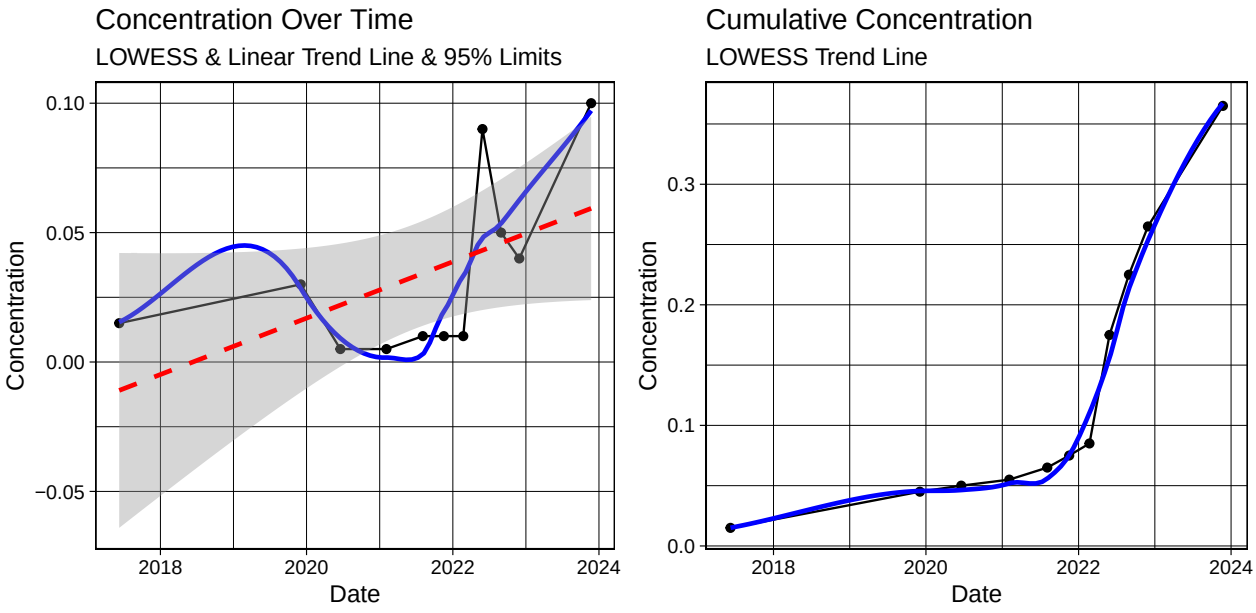
Kendall Trend Test Results Continuous	
n	11
z	2.24
p	0.02
S	29
varS	155.67
tau	0.57
mean	0.02
sd	0.02
cov	0.93
results	INCREASING

Report for ID : MW016 and Analyte : pfos



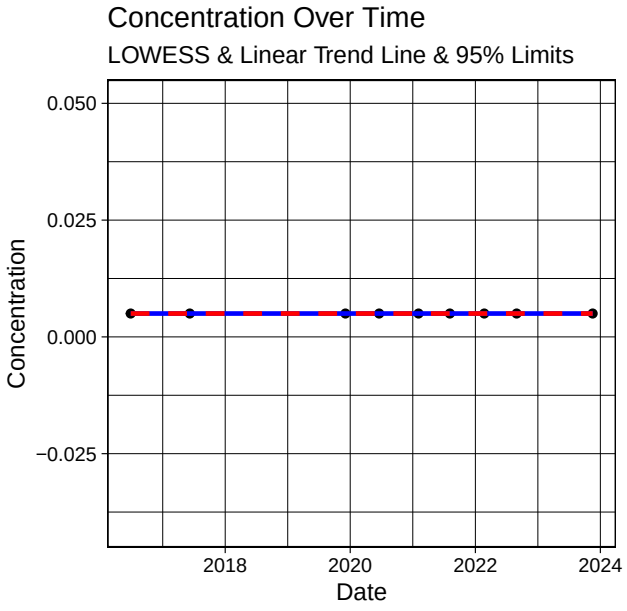
Kendall Trend Test Results Continuous	
n	11
z	1.9
p	0.06
S	25
varS	160.33
tau	0.47
mean	0.03
sd	0.03
cov	1.02
results	POSSIBLY INCREASING

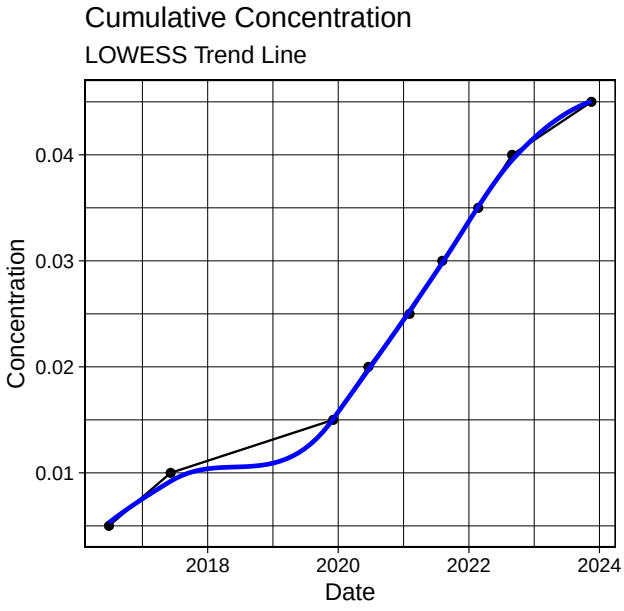
Report for ID : MW016 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	9
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

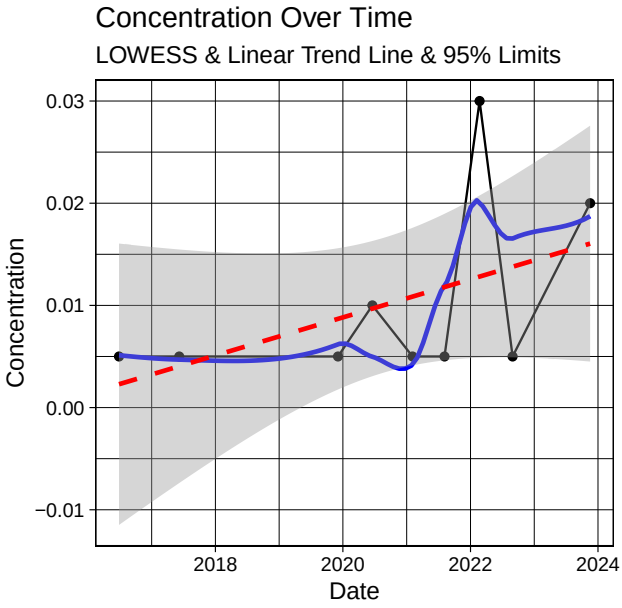
Report for ID : MW302 and Analyte : pfoa

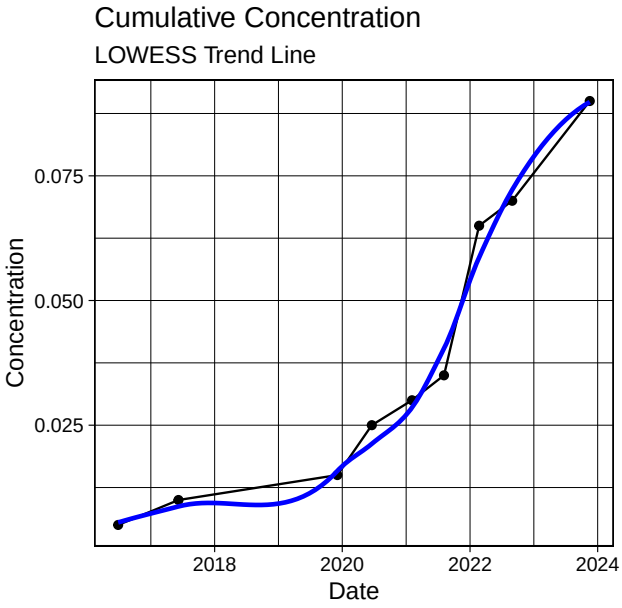




Kendall Trend Test Results Continuous	
n	9
z	1.25
p	0.21
S	11
varS	63.67
tau	0.4
mean	0.01
sd	0.01
cov	0.9
results	NO CLEAR TREND

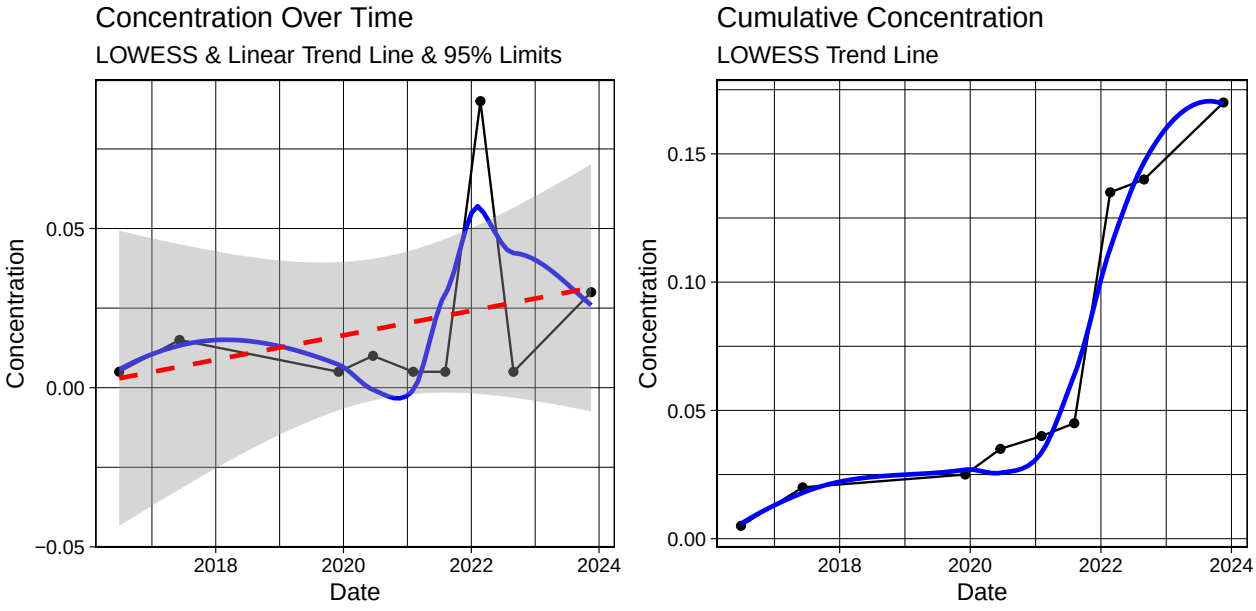
Report for ID : MW302 and Analyte : pfos





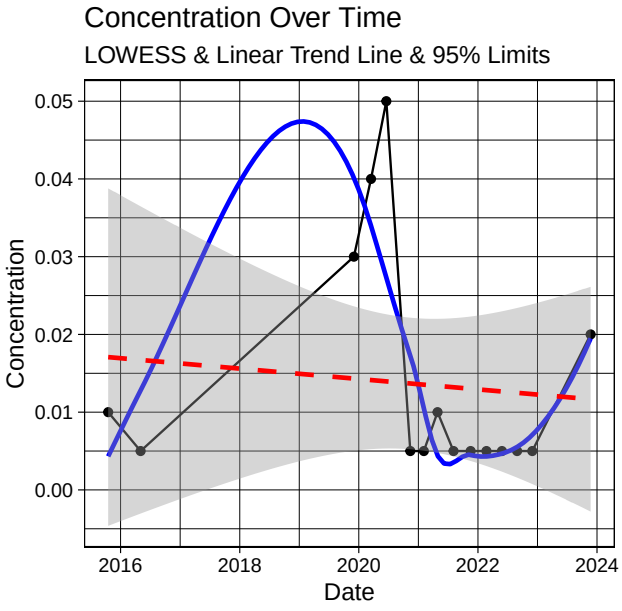
Kendall Trend Test Results Continuous	
n	9
z	0.58
p	0.56
S	6
varS	75.33
tau	0.2
mean	0.02
sd	0.03
cov	1.48
results	NO CLEAR TREND

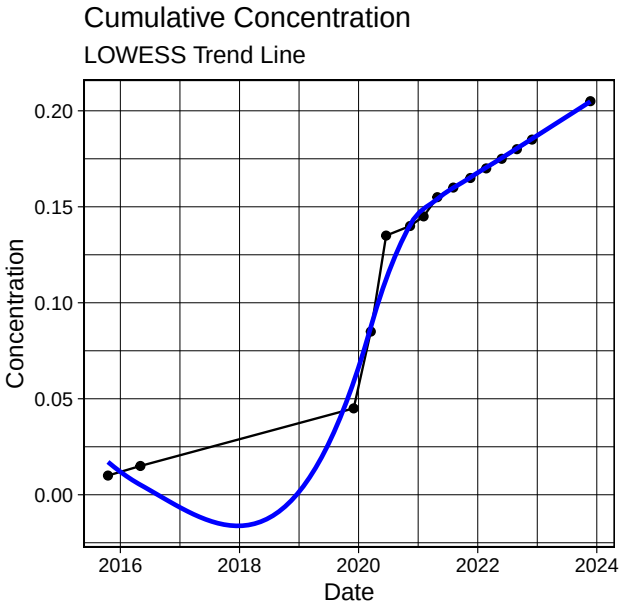
Report for ID : MW302 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	15
z	-1.18
p	0.24
S	-22
varS	315.33
tau	-0.26
mean	0.01
sd	0.01
cov	1.08
results	NO CLEAR TREND

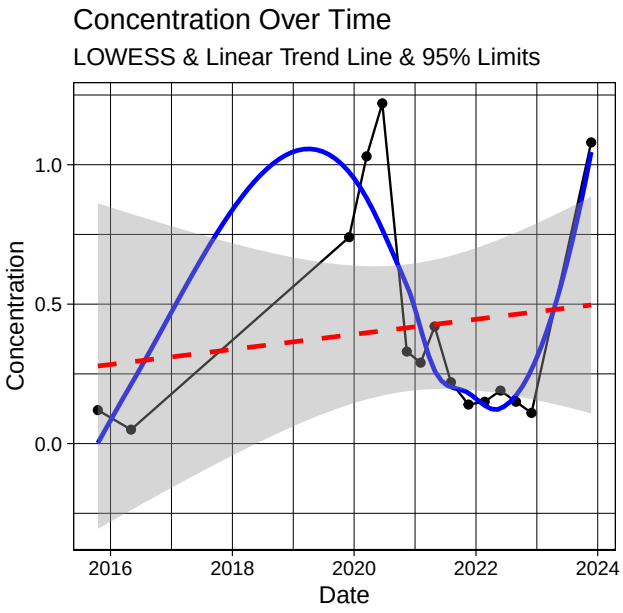
Report for ID : MW304 and Analyte : pfoa

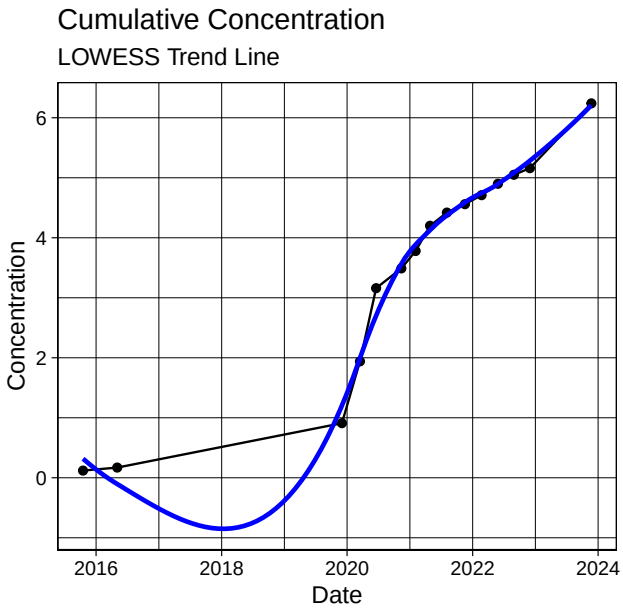




Kendall Trend Test Results Continuous	
n	15
z	-0.64
p	0.52
S	-14
varS	407.33
tau	-0.13
mean	0.42
sd	0.4
cov	0.96
results	STABLE

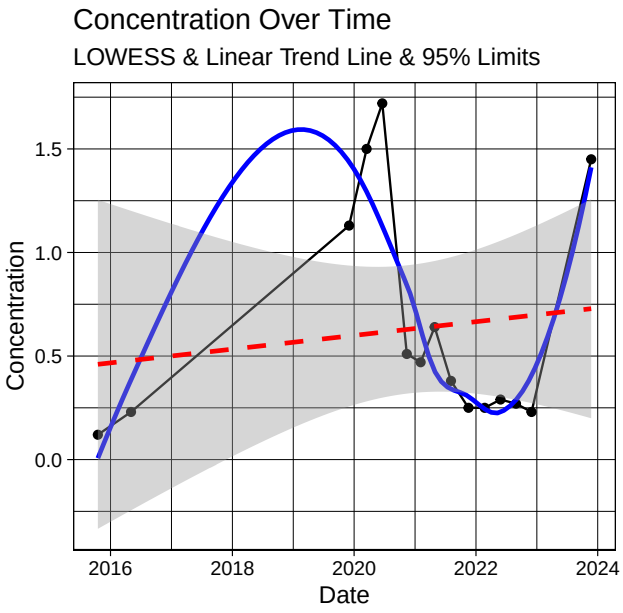
Report for ID : MW304 and Analyte : pfos

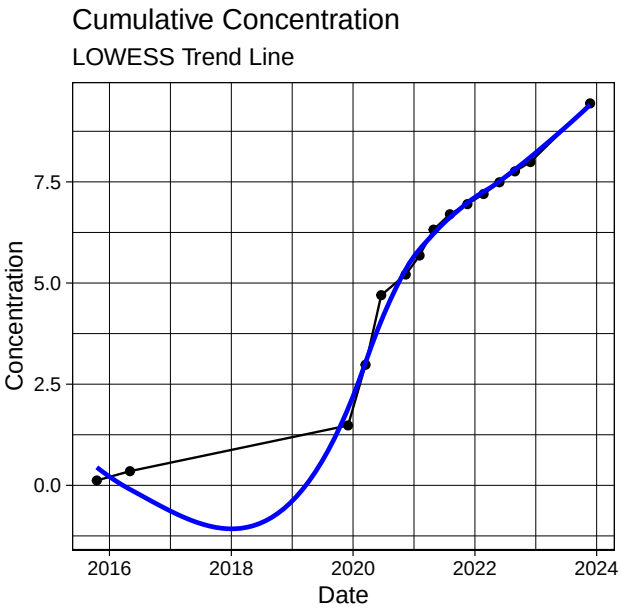




Kendall Trend Test Results Continuous	
n	15
z	-0.6
p	0.55
S	-13
varS	406.33
tau	-0.13
mean	0.63
sd	0.54
cov	0.86
results	STABLE

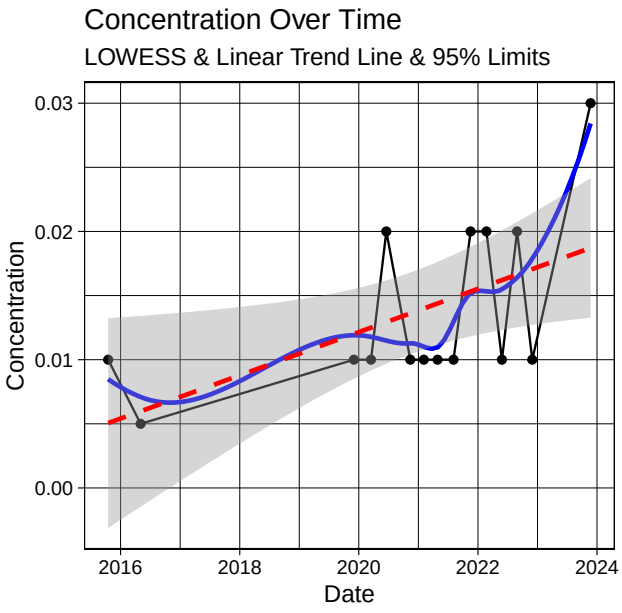
Report for ID : MW304 and Analyte : sum of PFHxS and PFOS

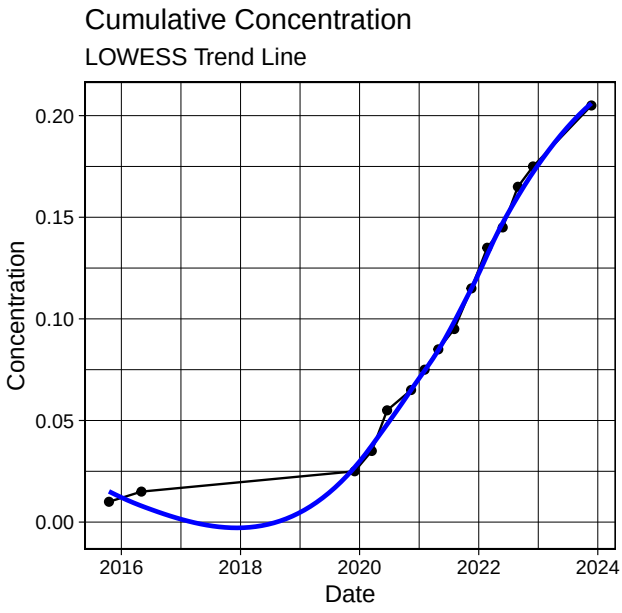




Kendall Trend Test Results Continuous	
n	15
z	2.17
p	0.03
S	39
varS	307.67
tau	0.48
mean	0.01
sd	0.01
cov	0.49
results	INCREASING

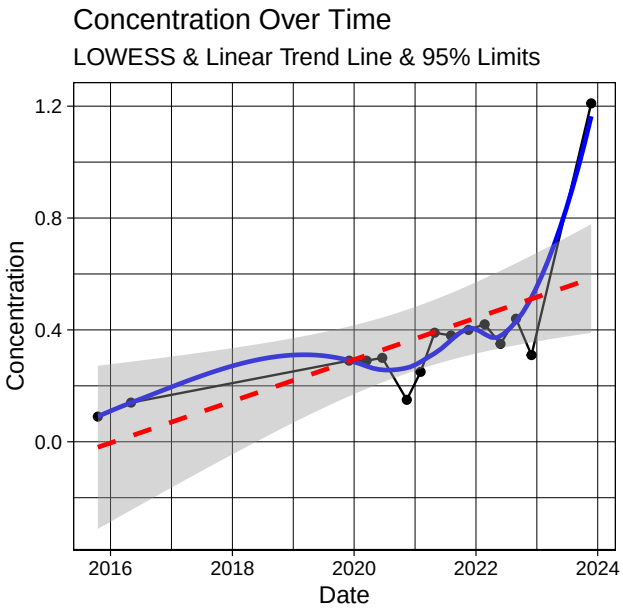
Report for ID : MW310 and Analyte : pfoa

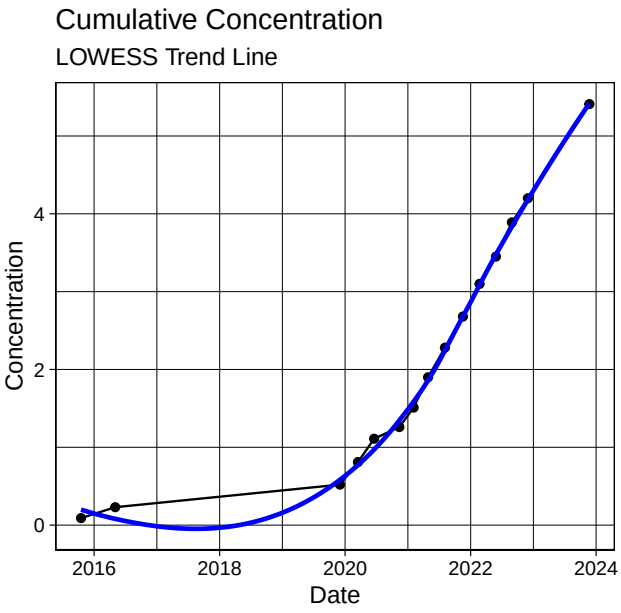




Kendall Trend Test Results Continuous	
n	15
z	3.42
p	0
S	70
varS	407.33
tau	0.67
mean	0.36
sd	0.26
cov	0.71
results	INCREASING

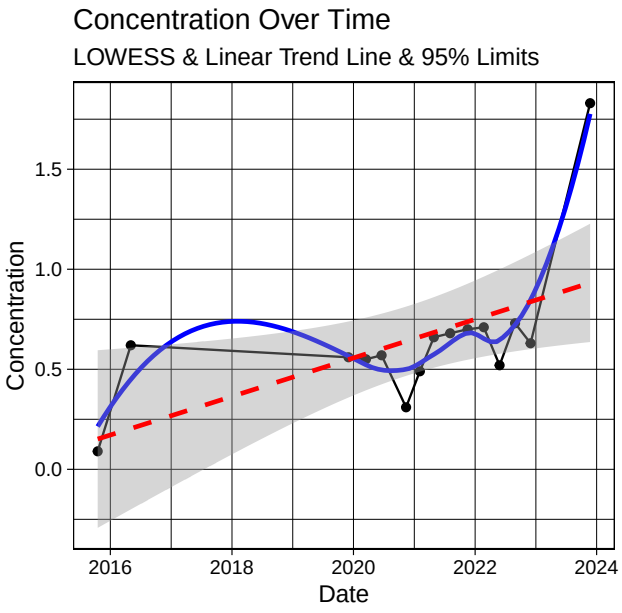
Report for ID : MW310 and Analyte : pfos

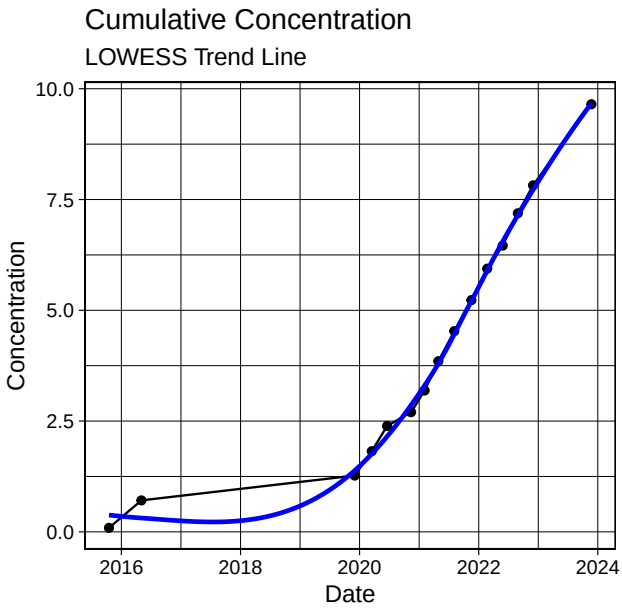




Kendall Trend Test Results Continuous	
n	15
z	2.67
p	0.01
S	55
varS	408.33
tau	0.52
mean	0.64
sd	0.37
cov	0.57
results	INCREASING

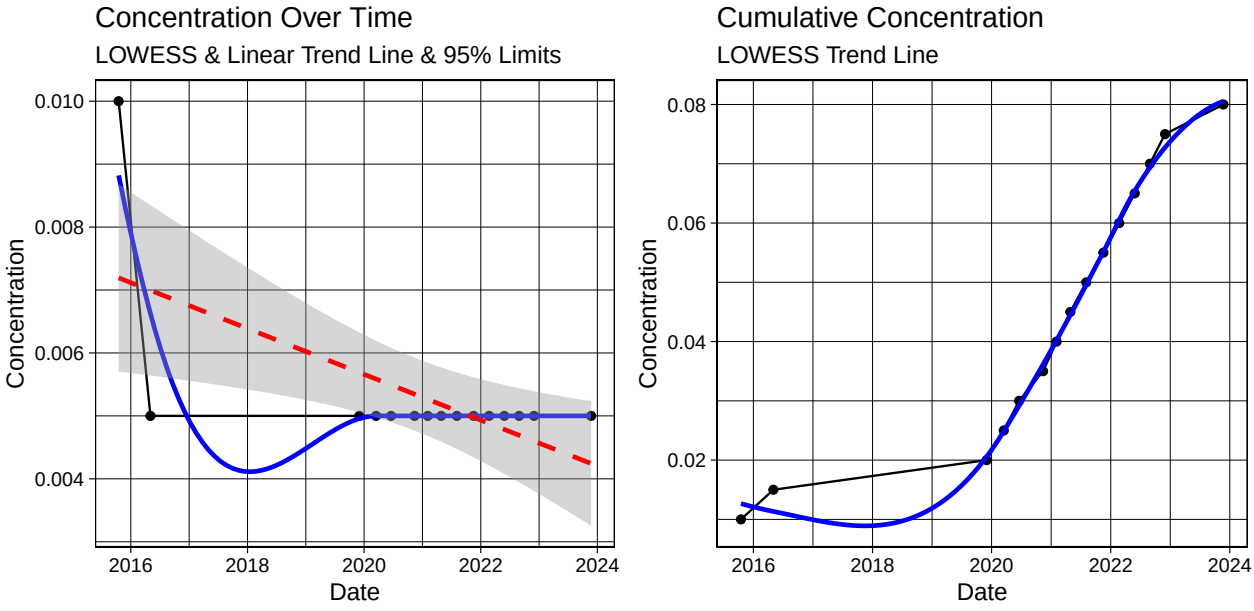
Report for ID : MW310 and Analyte : sum of PFHxS and PFOS





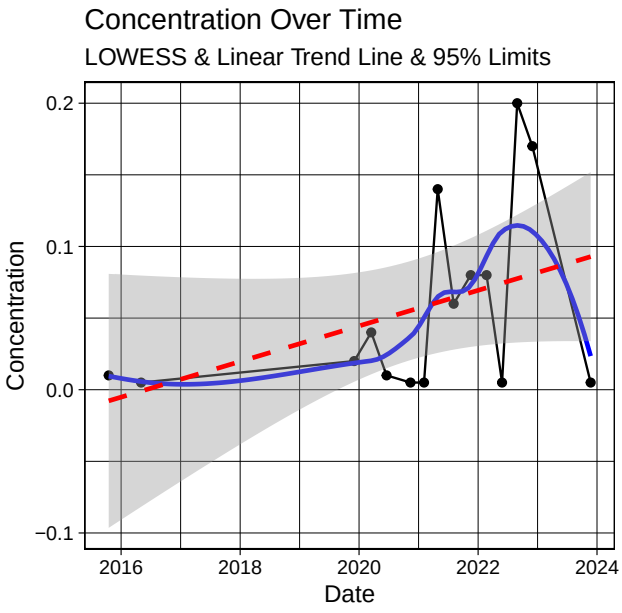
Kendall Trend Test Results Continuous	
n	15
z	-1.5
p	0.13
S	-14
varS	74.67
tau	-0.37
mean	0.01
sd	0
cov	0.24
results	STABLE

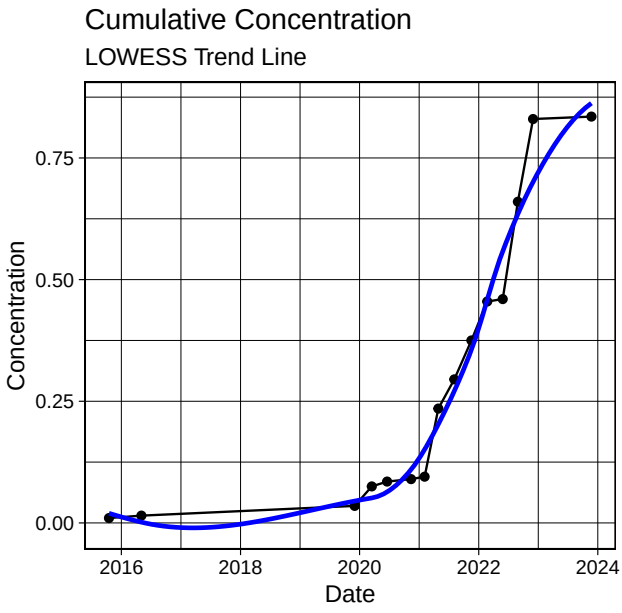
Report for ID : MW312 and Analyte : pfoa



Kendall Trend Test Results Continuous	
n	15
z	1.32
p	0.19
S	27
varS	389.67
tau	0.27
mean	0.06
sd	0.07
cov	1.18
results	NO CLEAR TREND

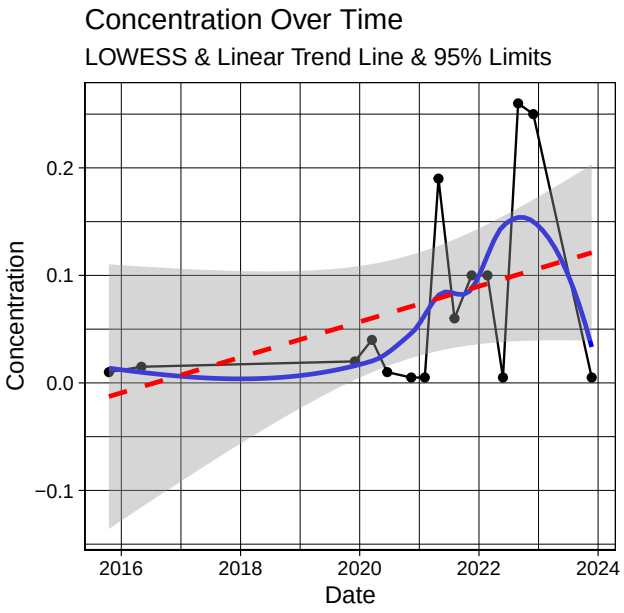
Report for ID : MW312 and Analyte : pfos

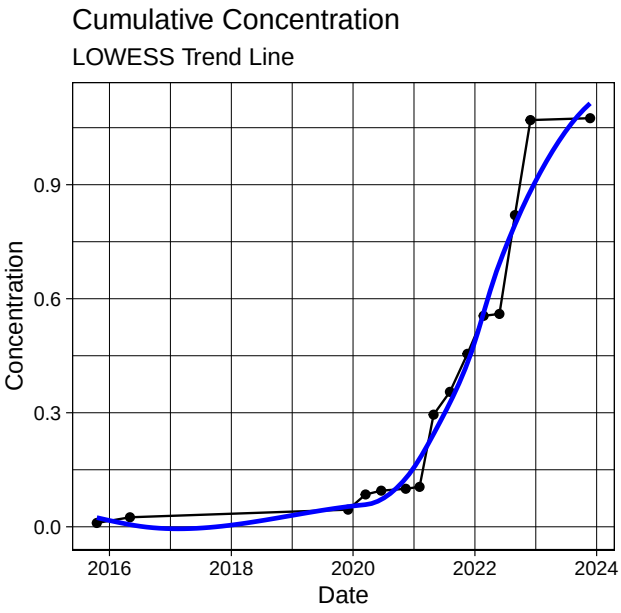




Kendall Trend Test Results Continuous	
n	15
z	1.1
p	0.27
S	23
varS	397.67
tau	0.23
mean	0.07
sd	0.09
cov	1.27
results	NO CLEAR TREND

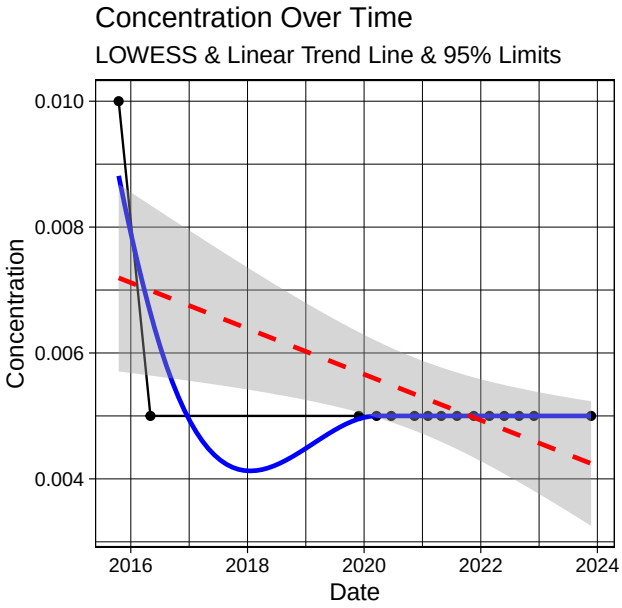
Report for ID : MW312 and Analyte : sum of PFHxS and PFOS

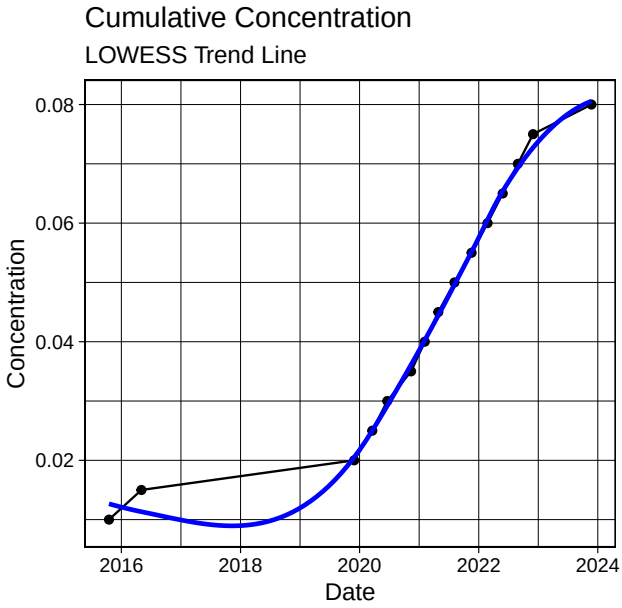




Kendall Trend Test Results Continuous	
n	15
z	-1.5
p	0.13
S	-14
varS	74.67
tau	-0.37
mean	0.01
sd	0
cov	0.24
results	STABLE

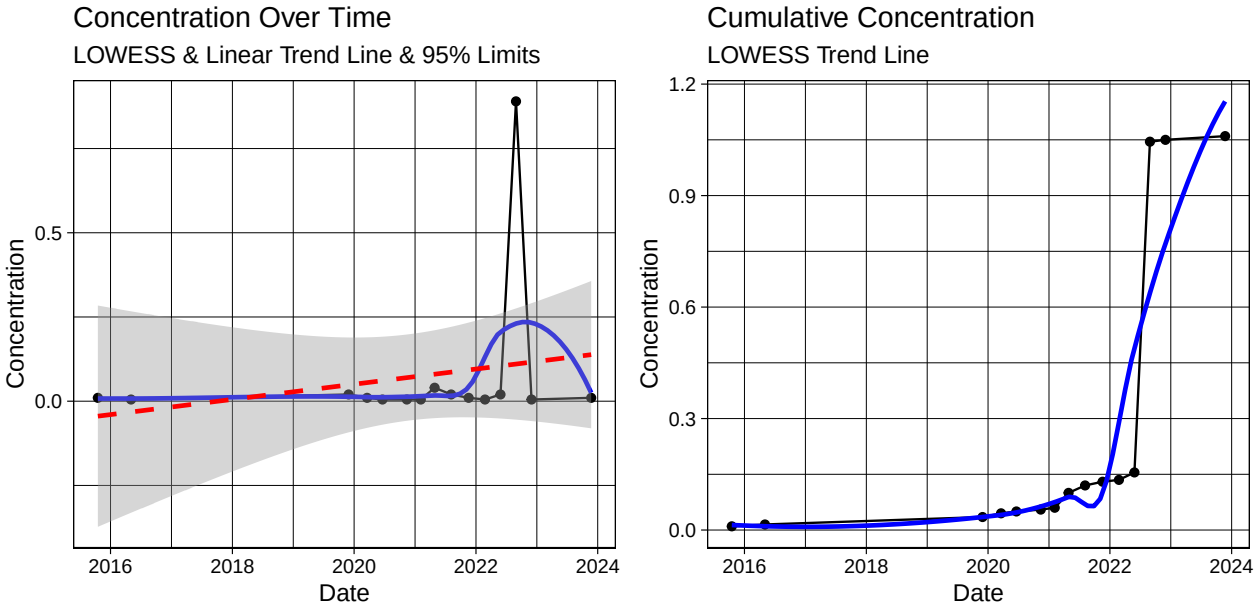
Report for ID : MW316 and Analyte : pfoa





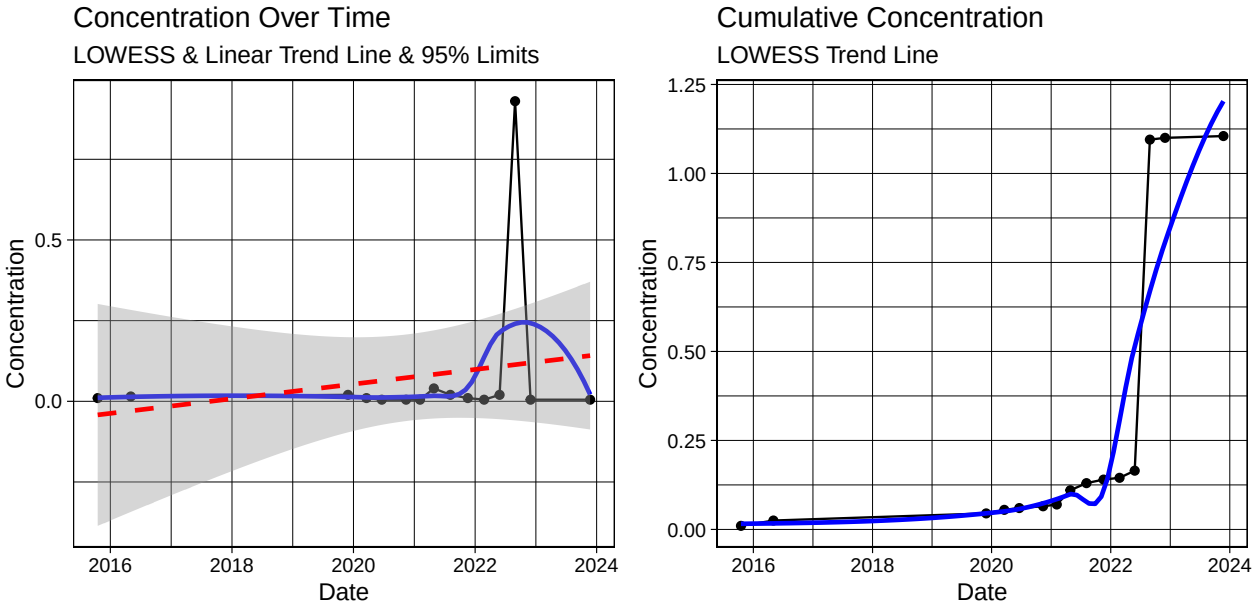
Kendall Trend Test Results Continuous	
n	15
z	0.52
p	0.6
S	11
varS	367.67
tau	0.12
mean	0.07
sd	0.23
cov	3.21
results	NO CLEAR TREND

Report for ID : MW316 and Analyte : pfos



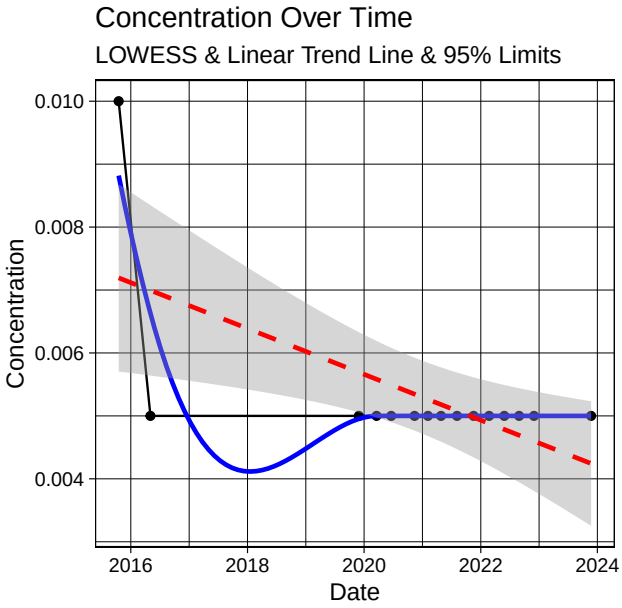
Kendall Trend Test Results Continuous	
n	15
z	-0.26
p	0.8
S	-6
varS	372.67
tau	-0.06
mean	0.07
sd	0.24
cov	3.22
results	NO CLEAR TREND

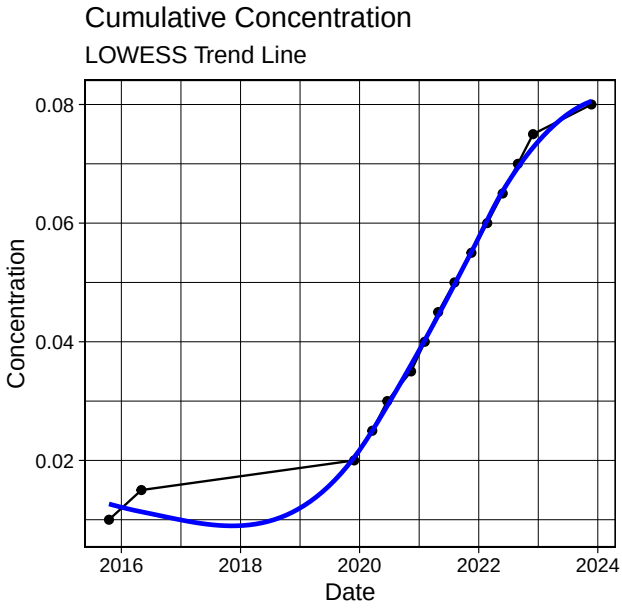
Report for ID : MW316 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	15
z	-1.5
p	0.13
S	-14
varS	74.67
tau	-0.37
mean	0.01
sd	0
cov	0.24
results	STABLE

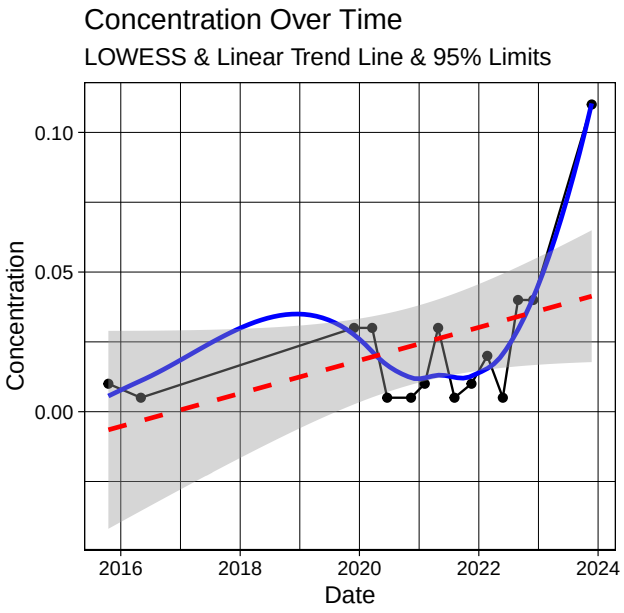
Report for ID : MW318 and Analyte : pfoa

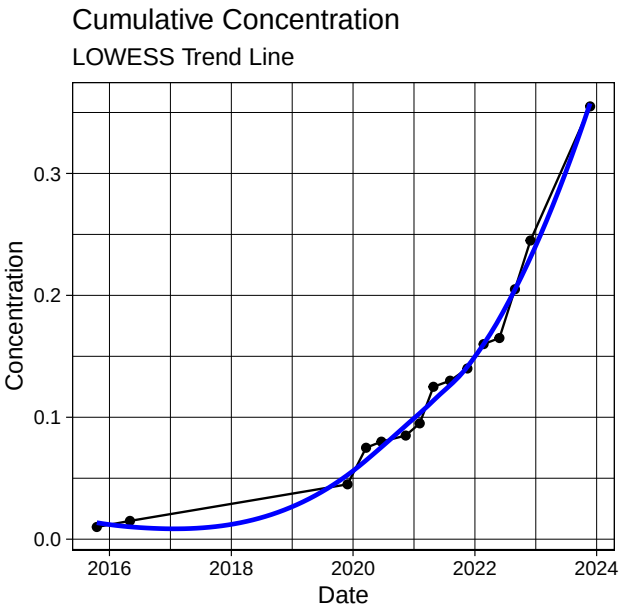




Kendall Trend Test Results Continuous	
n	15
z	1.69
p	0.09
S	34
varS	383.33
tau	0.35
mean	0.02
sd	0.03
cov	1.15
results	POSSIBLY INCREASING

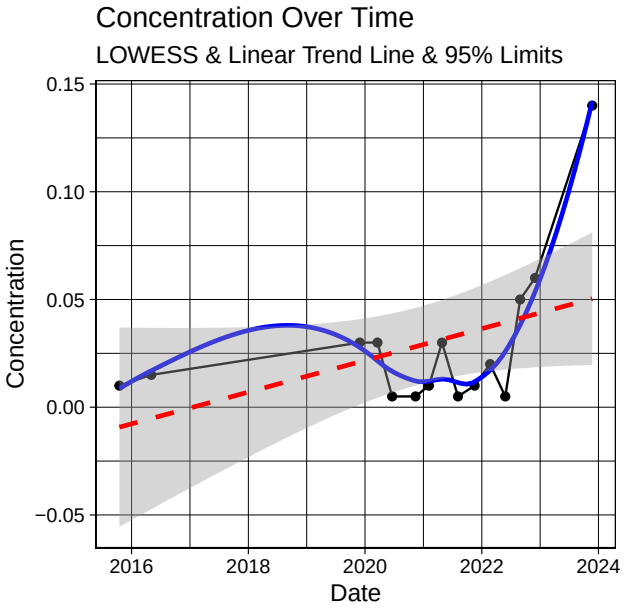
Report for ID : MW318 and Analyte : pfos

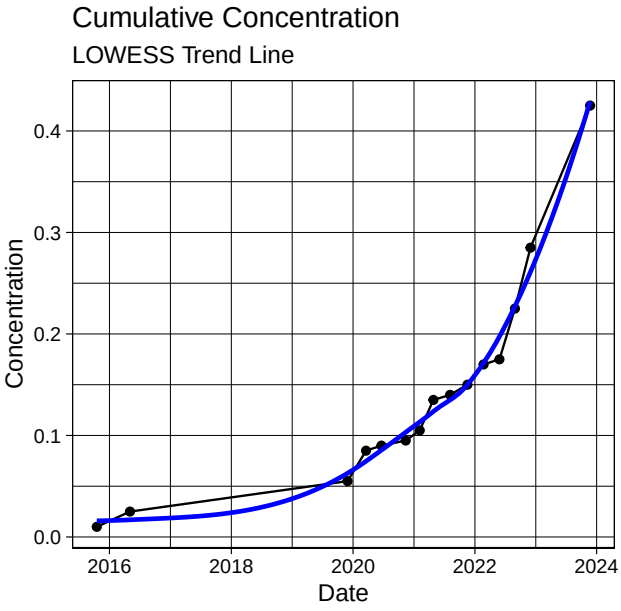




Kendall Trend Test Results Continuous	
n	15
z	1.41
p	0.16
S	29
varS	392.33
tau	0.29
mean	0.03
sd	0.04
cov	1.24
results	NO CLEAR TREND

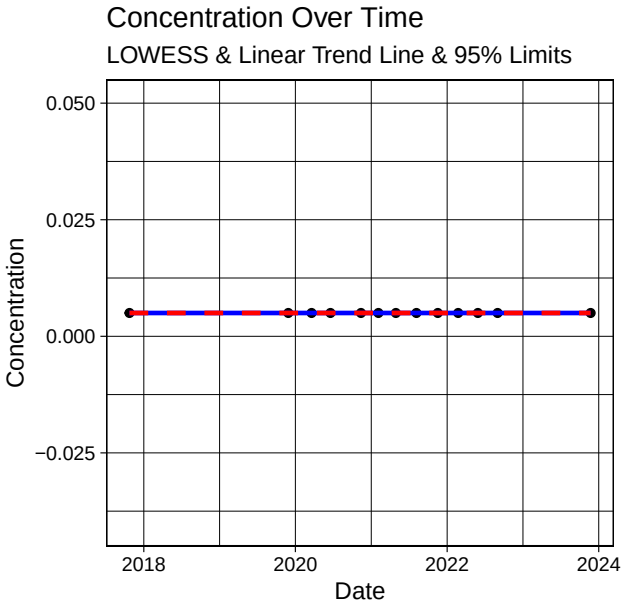
Report for ID : MW318 and Analyte : sum of PFHxS and PFOS

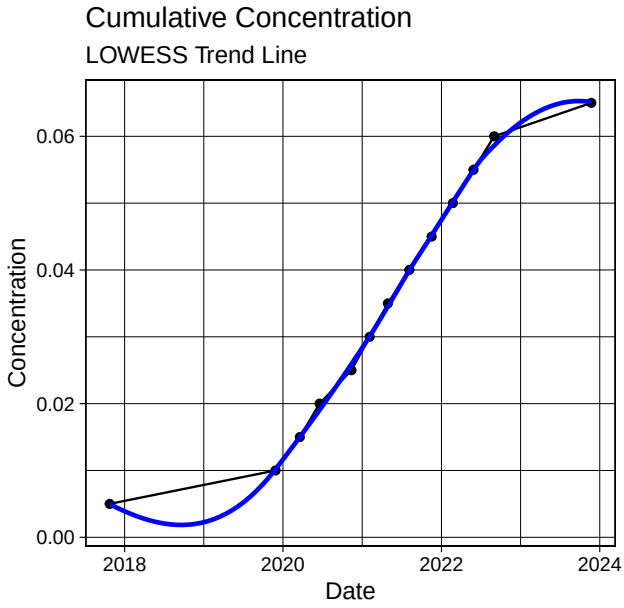




Kendall Trend Test Results Continuous	
n	13
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

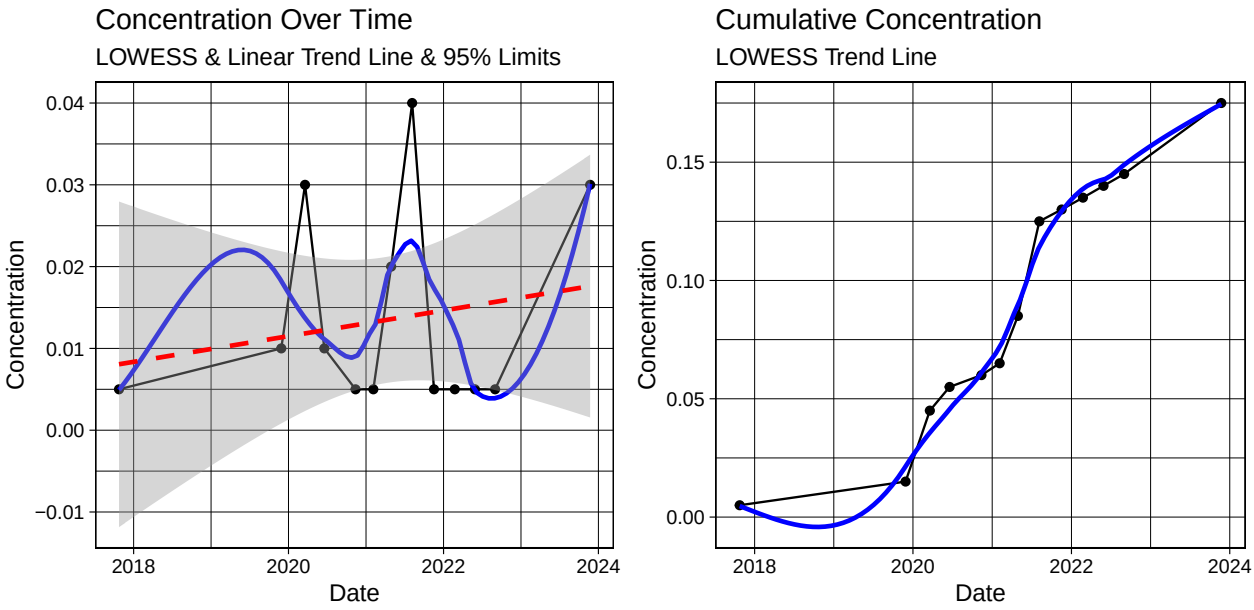
Report for ID : MW319 and Analyte : pfoa





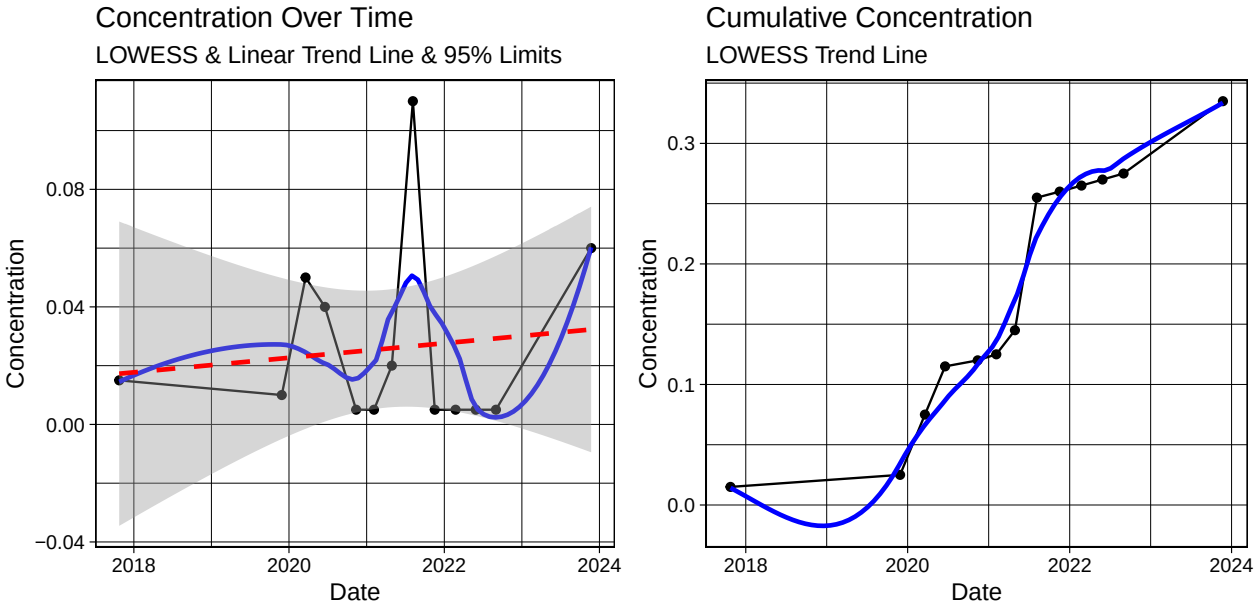
Kendall Trend Test Results Continuous	
n	13
z	-0.13
p	0.89
S	-3
varS	222.33
tau	-0.05
mean	0.01
sd	0.01
cov	0.91
results	STABLE

Report for ID : MW319 and Analyte : pfos



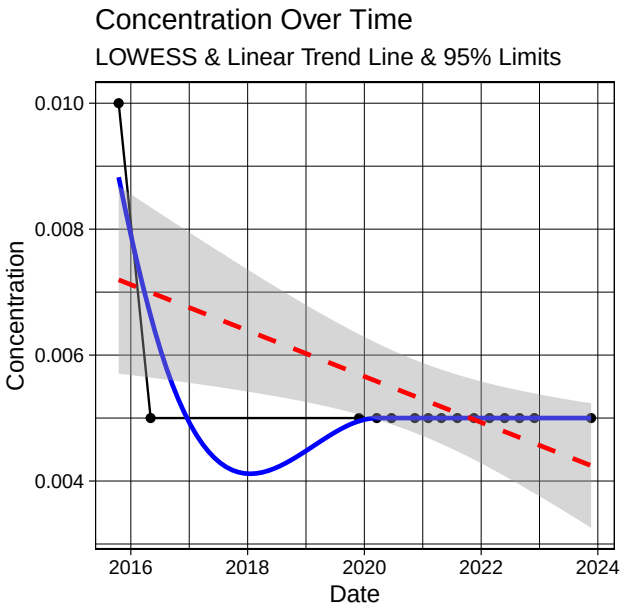
Kendall Trend Test Results Continuous	
n	13
z	-0.65
p	0.52
S	-11
varS	240.33
tau	-0.16
mean	0.03
sd	0.03
cov	1.23
results	NO CLEAR TREND

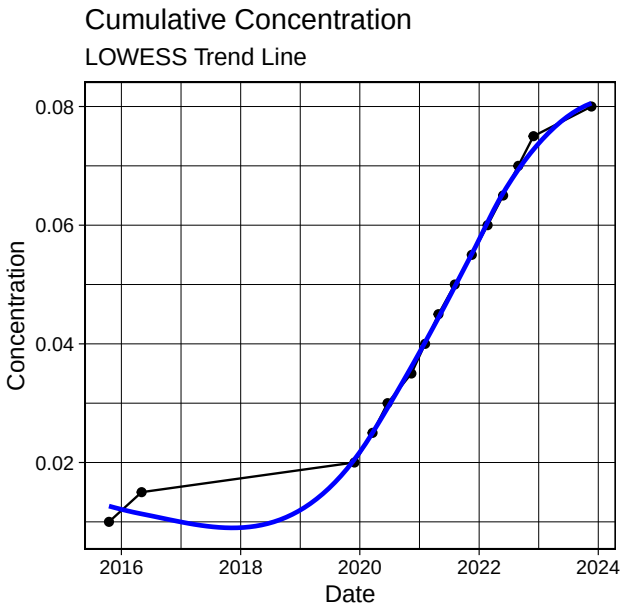
Report for ID : MW319 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	15
z	-1.5
p	0.13
S	-14
varS	74.67
tau	-0.37
mean	0.01
sd	0
cov	0.24
results	STABLE

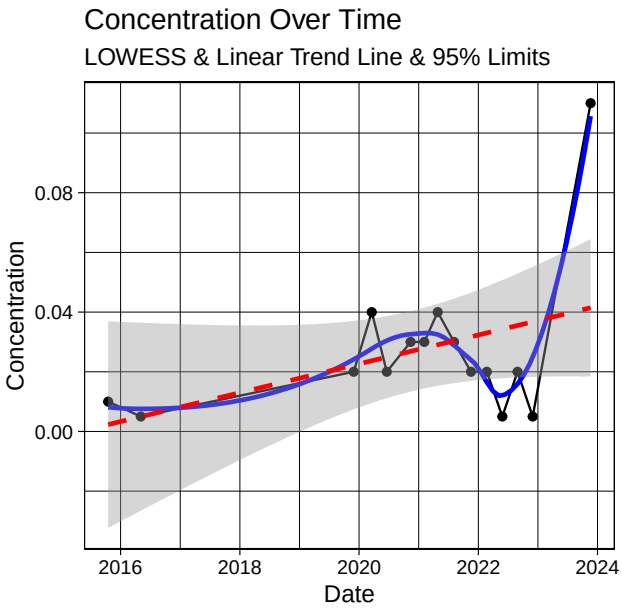
Report for ID : MW321 and Analyte : pfoa

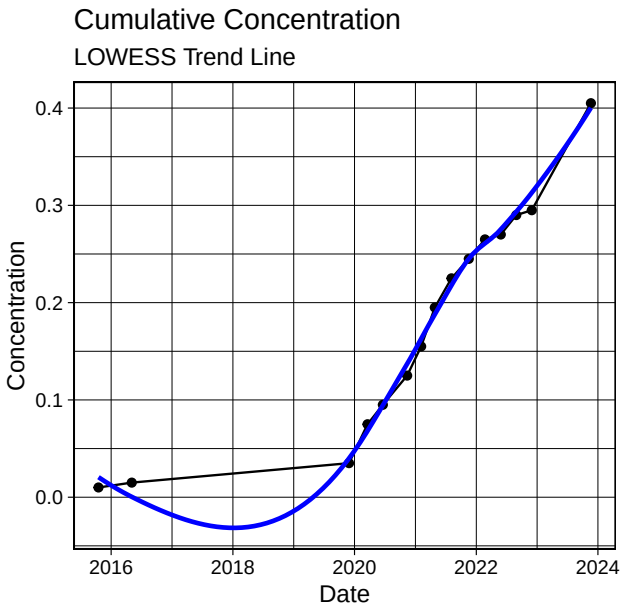




Kendall Trend Test Results Continuous	
n	15
z	0.15
p	0.88
S	4
varS	383.33
tau	0.04
mean	0.03
sd	0.03
cov	0.95
results	NO CLEAR TREND

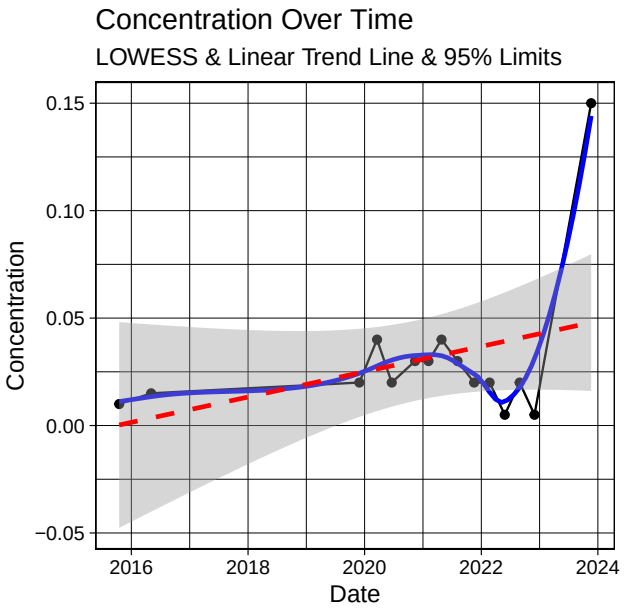
Report for ID : MW321 and Analyte : pfos

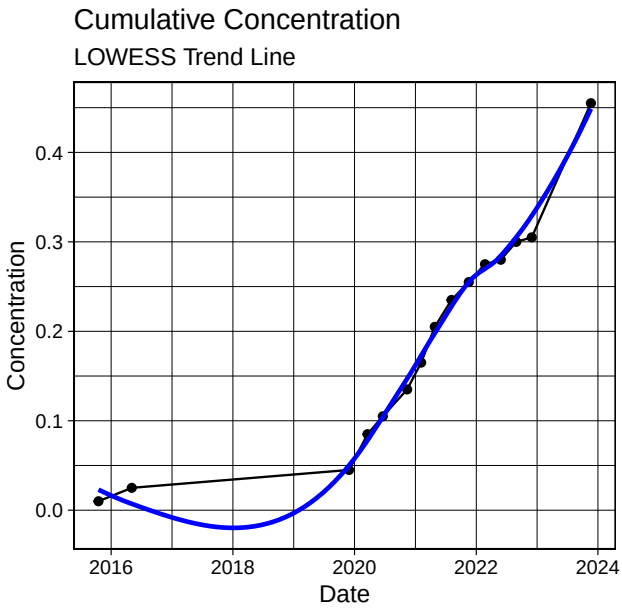




Kendall Trend Test Results Continuous	
n	15
z	0.15
p	0.88
S	4
varS	386
tau	0.04
mean	0.03
sd	0.03
cov	1.15
results	NO CLEAR TREND

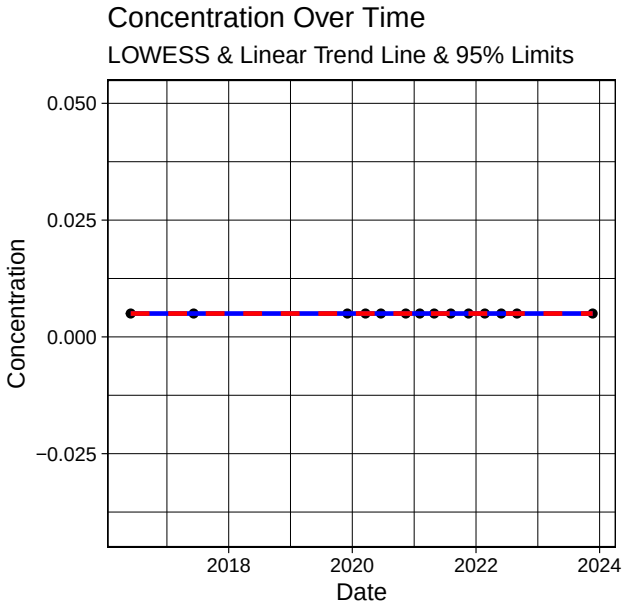
Report for ID : MW321 and Analyte : sum of PFHxS and PFOS

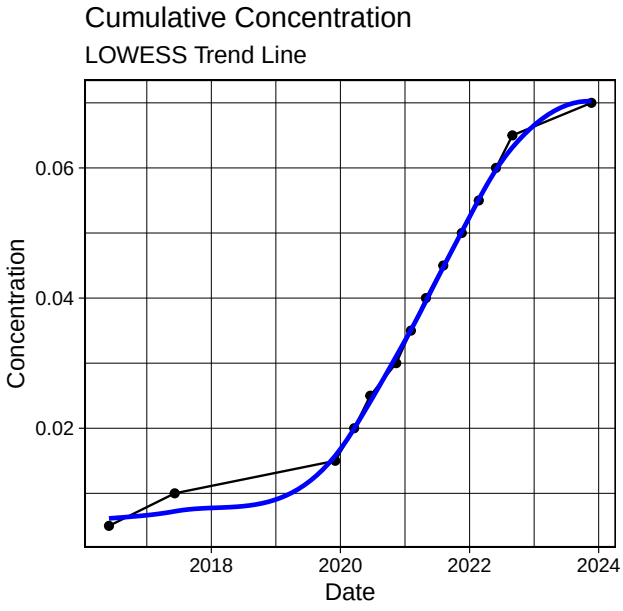




Kendall Trend Test Results Continuous	
n	14
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

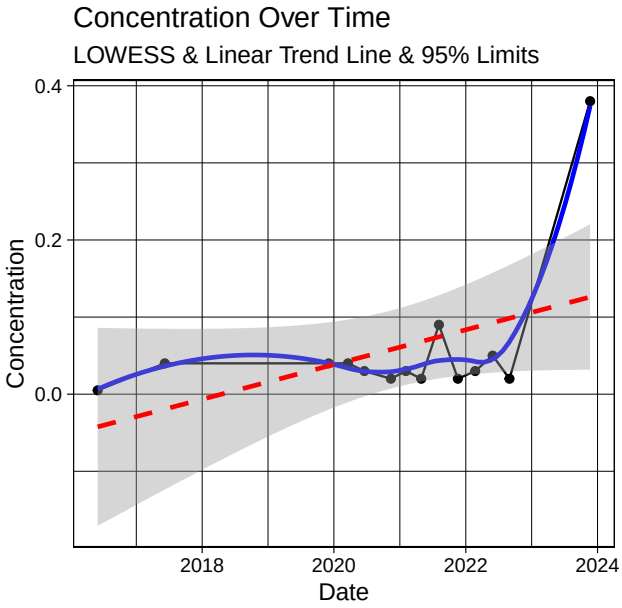
Report for ID : POT042 and Analyte : pfoa

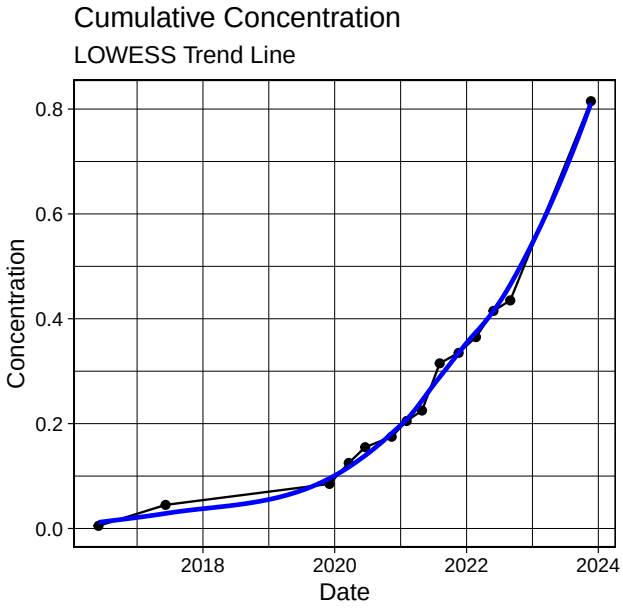




Kendall Trend Test Results Continuous	
n	14
z	0.56
p	0.57
S	11
varS	317.67
tau	0.13
mean	0.06
sd	0.09
cov	1.63
results	NO CLEAR TREND

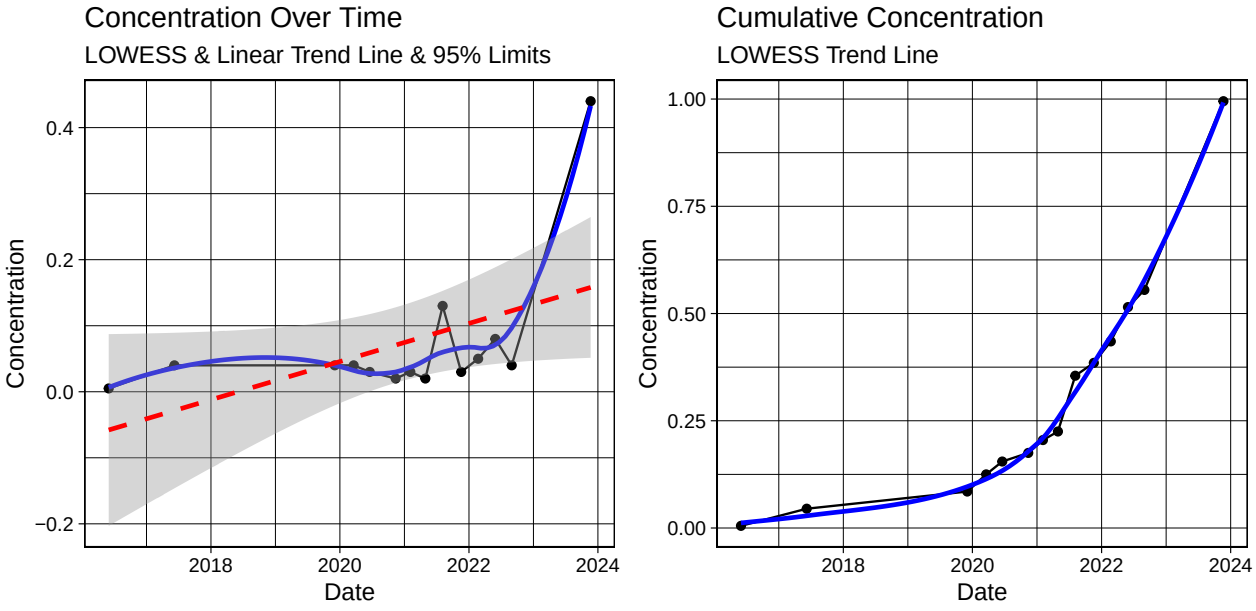
Report for ID : POT042 and Analyte : pfos





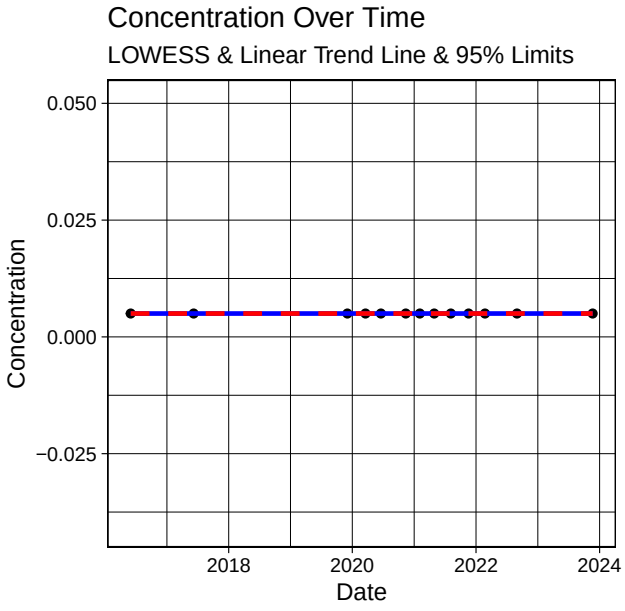
Kendall Trend Test Results Continuous	
n	14
z	1.79
p	0.07
S	33
varS	320.33
tau	0.38
mean	0.07
sd	0.11
cov	1.55
results	POSSIBLY INCREASING

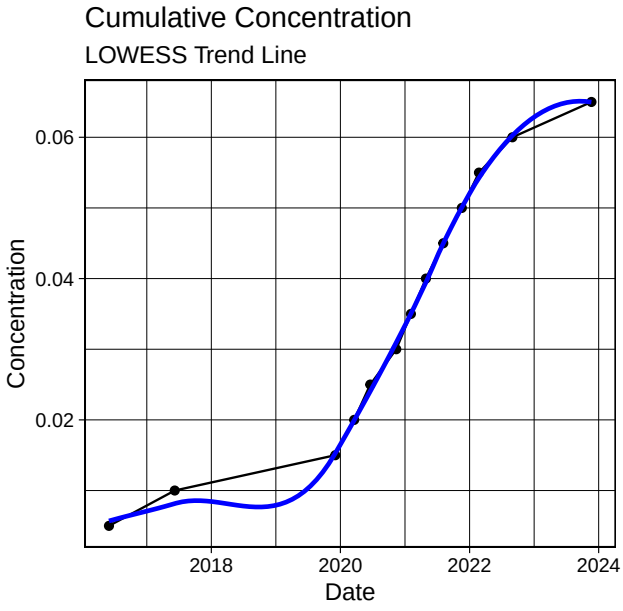
Report for ID : POT042 and Analyte : sum of PFHxS and PFOS



Kendall Trend Test Results Continuous	
n	13
z	NaN
p	NaN
S	0
varS	0
tau	NaN
mean	0
sd	0
cov	0
results	NA

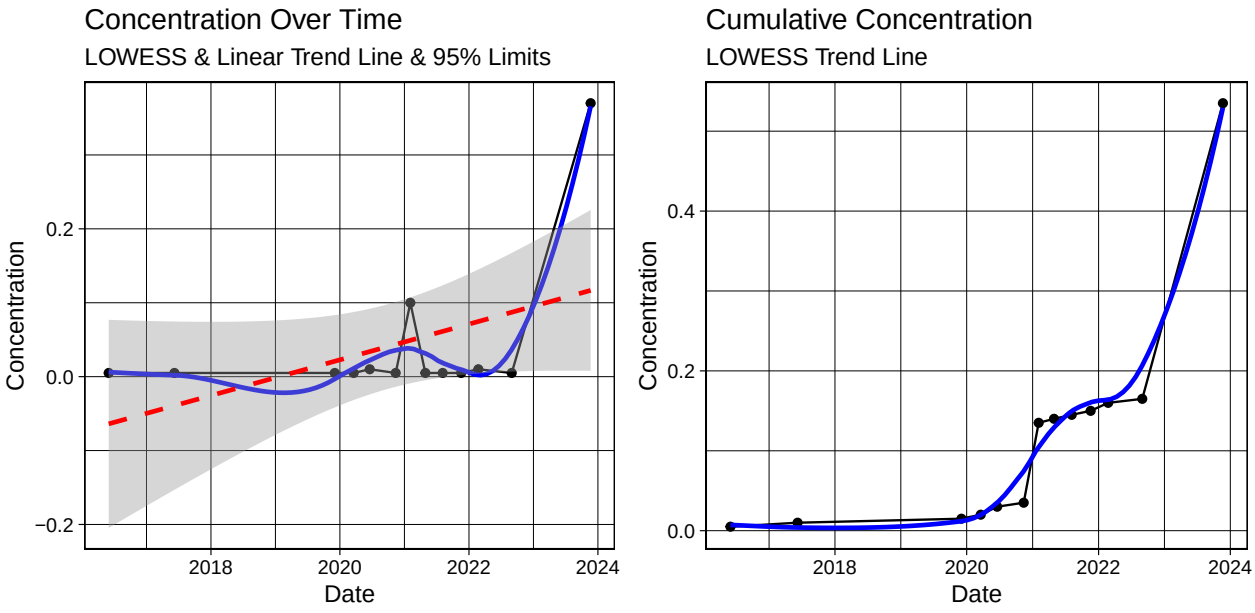
Report for ID : POT051 and Analyte : pfoa





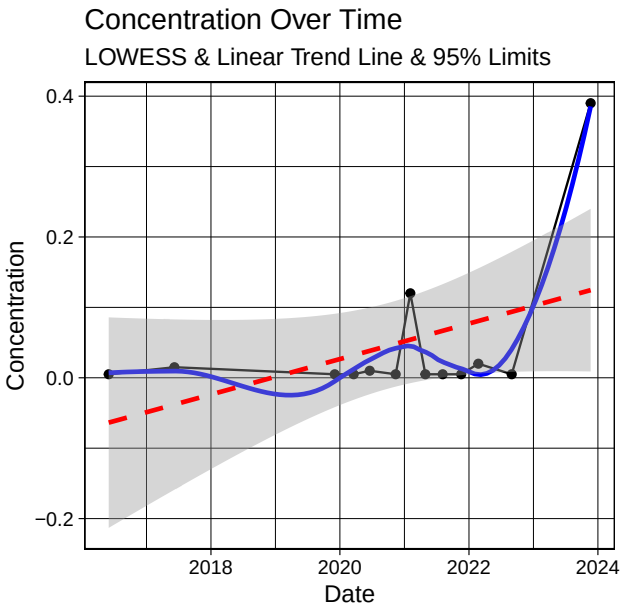
Kendall Trend Test Results Continuous	
n	13
z	1.36
p	0.17
S	19
varS	175.67
tau	0.34
mean	0.04
sd	0.1
cov	2.48
results	NO CLEAR TREND

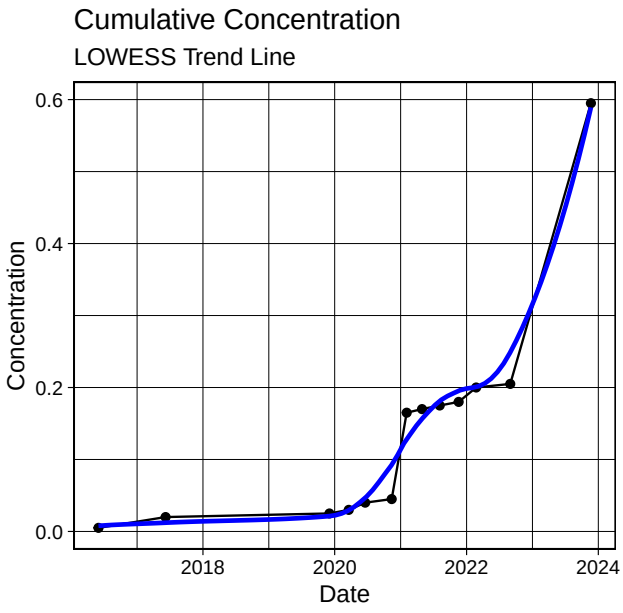
Report for ID : POT051 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	13
z	0.77
p	0.44
S	12
varS	203.33
tau	0.19
mean	0.05
sd	0.11
cov	2.36
results	NO CLEAR TREND

Report for ID : POT051 and Analyte : sum of PFHxS and PFOS





Trend Report

Report Date & Time: 2024-02-09 03:51:19

Data File Name: Central-Eastern Area - FIre Station_23_Open_UCL_Input_V1.csv

Report Title: Groundwater Trend Data - Central_Area_23

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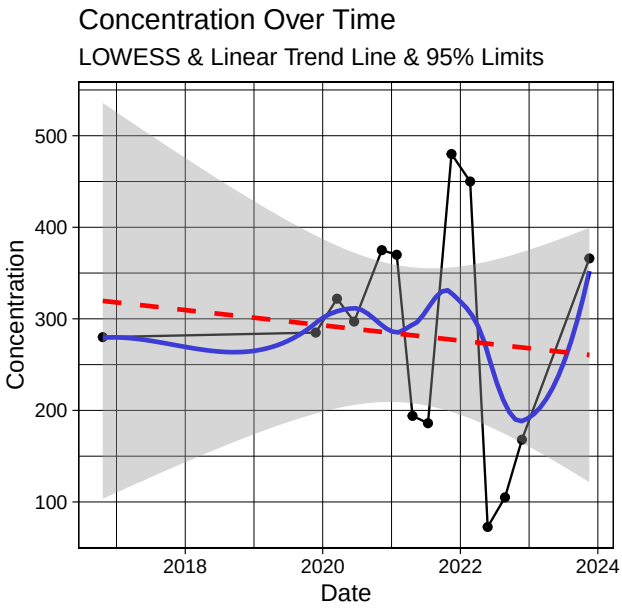
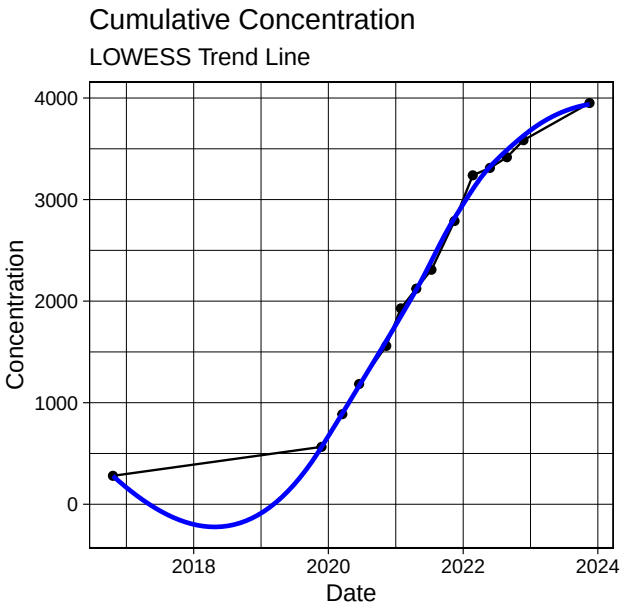
Kendall Trend Test Results Continuous	
n	14
z	-0.44
p	0.66
S	-9
varS	333.67
tau	-0.1
mean	282.19
sd	123.35
cov	0.44
results	STABLE

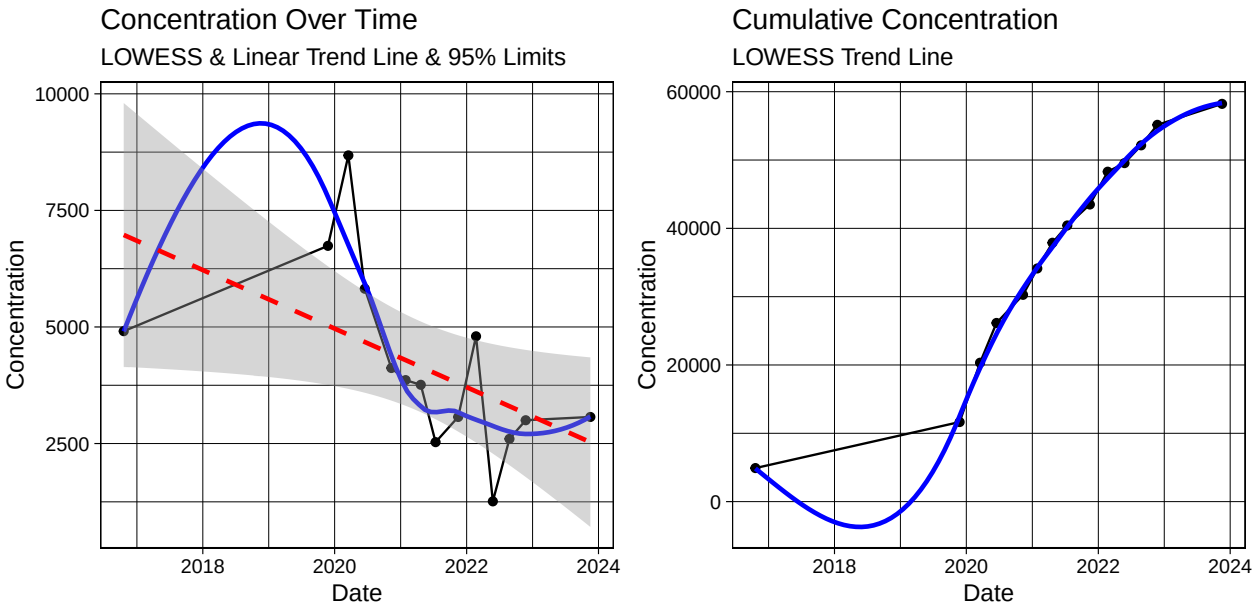
Report for ID : MW719 and Analyte : pfoa





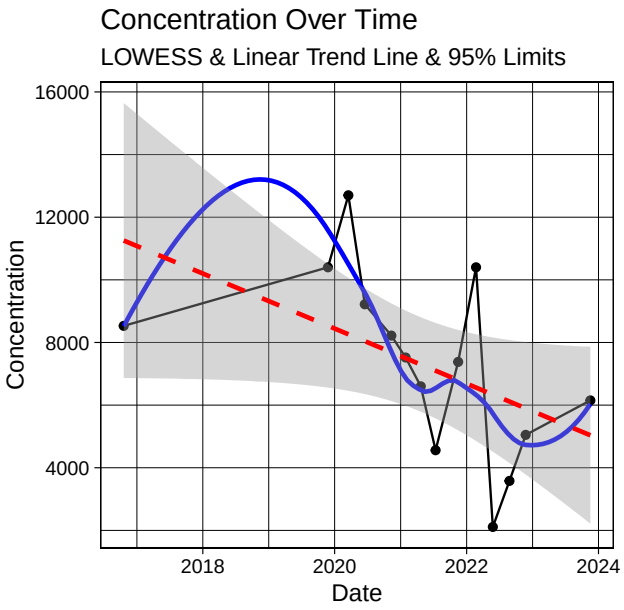
Kendall Trend Test Results Continuous	
n	14
z	-2.8
p	0.01
S	-52
varS	332.67
tau	-0.57
mean	4158.57
sd	1927.3
cov	0.46
results	DECREASING

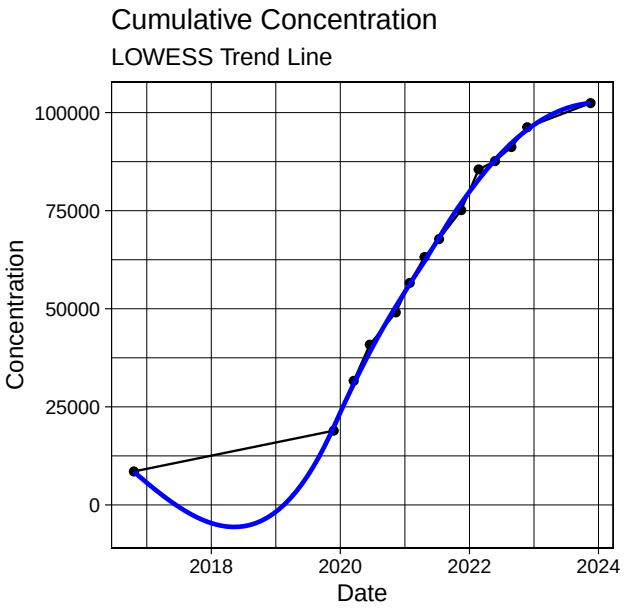
Report for ID : MW719 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	-2.58
p	0.01
S	-48
varS	332.67
tau	-0.53
mean	7315.71
sd	2904.03
cov	0.4
results	DECREASING

Report for ID : MW719 and Analyte : sum of PFHxS and PFOS





Kendall Trend Test Results Continuous	
n	14
z	0.88
p	0.38
S	17
varS	333.67
tau	0.19
mean	49.71
sd	47.5
cov	0.96
results	NO CLEAR TREND

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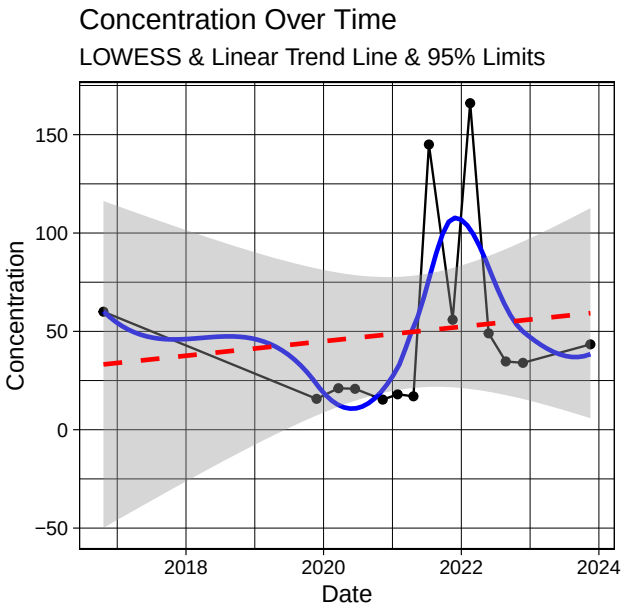
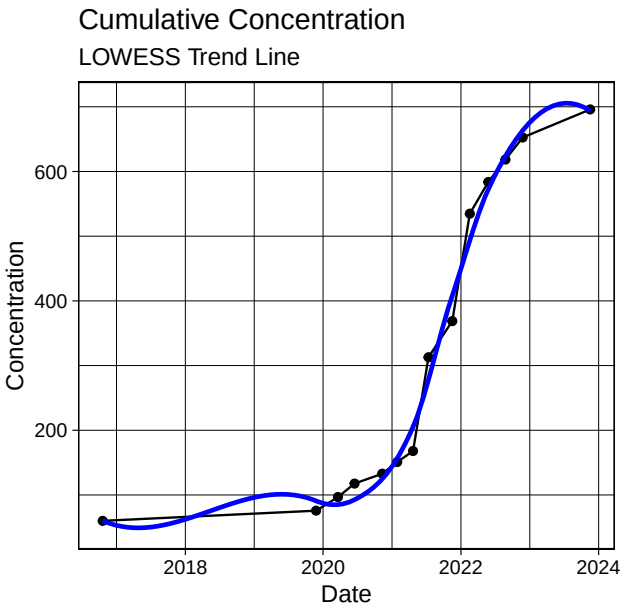
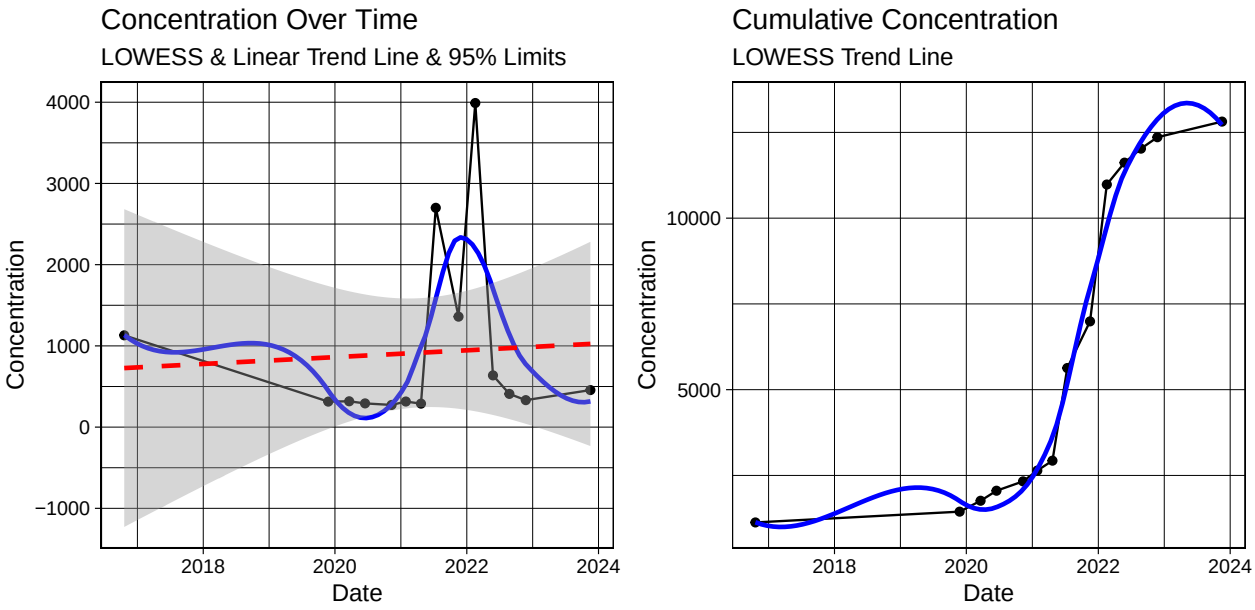




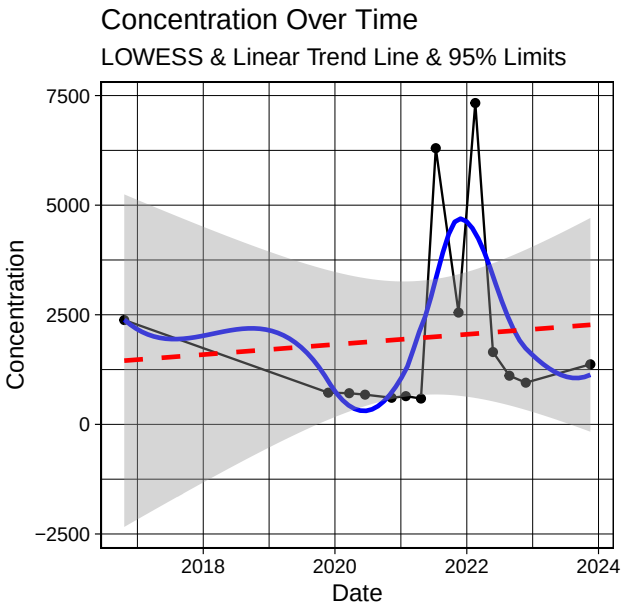
Kendall Trend Test Results Continuous	
n	14
z	0.88
p	0.38
S	17
varS	333.67
tau	0.19
mean	915.36
sd	1110.78
cov	1.21
results	NO CLEAR TREND

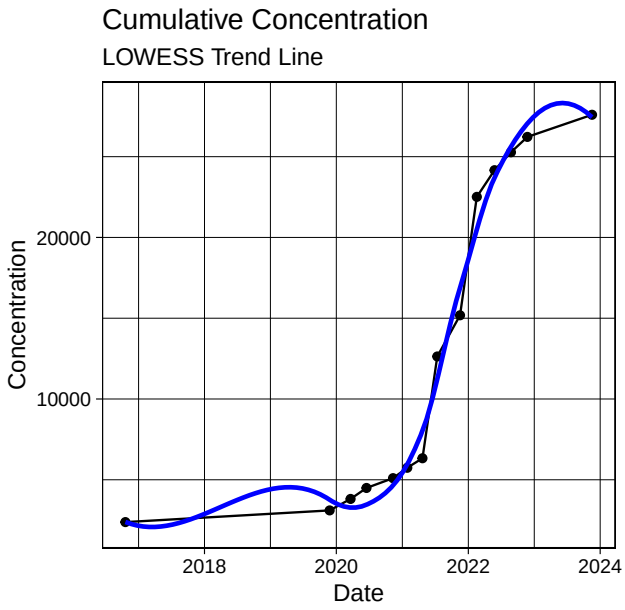
Report for ID : MW720 and Analyte : pfos



Kendall Trend Test Results Continuous	
n	14
z	0.44
p	0.66
S	9
varS	333.67
tau	0.1
mean	1970.93
sd	2158.27
cov	1.1
results	NO CLEAR TREND

Report for ID : MW720 and Analyte : sum of PFHxS and PFOS





APPENDIX

D

E13 FACTUAL REPORT

Cardno

now

Stantec

PFAS OMP Factual Report

Annual Sampling Event November 2023

RAAF Base East Sale

DEF19008

Prepared for
Department of Defence

31 January 2024

Cardno

now

Stantec

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Our report is based on information made available by the client. The validity and comprehensiveness of supplied information has not been independently verified and, for the purposes of this report, it is assumed that the information provided to Cardno is both complete and accurate. Whilst, to the best of our knowledge, the information contained in this report is accurate at the date of issue, changes may occur to the site conditions, the site context or the applicable planning framework. This report should not be used after any such changes without consulting the provider of the report or a suitably qualified person.

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List of Abbreviations and Units

Chemical Names

DOC	Dissolved Organic Carbon
DO	Dissolved Oxygen
PFAS	Per- and Poly-fluoroalkyl Substances
PFHxS	Perfluorohexane Sulfonate
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
TDS	Total Dissolved Solids (salinity of water)
TSS	Total Suspended Solids

Technical Terms

AFFF	Aqueous Film-Forming Foam
AHD	Australian Height Datum
ANZECC	Australian and New Zealand Environment and Conservation Council
AS	Australian Standard
AST	Above-ground Storage Tank
BGL	Below Ground Level
COC	Chain of Custody
CSM	Conceptual Site Model
DQI	Data Quality Indicator
DQO	Data Quality Objective
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EPA	Environment Protection Authority
ESA	Environmental Site Assessment
HIL	Health Investigation Level
HSL	Health Screening Level
LOR	Limit of Reporting
N/A	Not Applicable
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environmental Protection Measure
ORP	Oxidation Reduction Potential
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percentage Difference
SAQP	Sampling and Analysis Quality Plan
SWL	Standing Water Levels

Units

ha	Hectares
mAHD	Metres Above Australian Height Datum
mBGL	Metres Below Ground Level
mbTOC	Metres Below Top of Casing
mg/kg	Milligram per Kilogram (approximately equivalent to ppm)
mg/L	Milligram per Litre
ppm	Parts per Million
µg/L	Micrograms per Litre
µS/cm	Micro Siemens per Centimetre (Electrical Conductivity - Water)

Site Specific

OMP	Ongoing Monitoring Plan
DCMM	Defence Contamination Management Manual
ESdat	Environmental data management software

1 Introduction

1.1 Background

Cardno, now Stantec (Cardno) was engaged by the Department of Defence ("Defence" or "the Client") to carry out the Per- and Poly-Fluoroalkyl Substances (PFAS) Ongoing Monitoring Plan (OMP) at RAAF Base East Sale ("the Site"). The location of the site is displayed in Figure 1 of Appendix A.

The OMP was carried out in accordance with the scope and limitations presented in Cardno's Sampling and Analysis Quality Plan (SAQP):

> Cardno, Reference: DEF19008, '*PFAS Ongoing Monitoring Plan Sampling and Analysis Quality Plan (SAQP) RAAF Base East Sale*', Rev15, 21 December 2023.

For the purposes of this report:

> The "Site Boundary / Onsite Monitoring Area and Management Area" are both defined as RAAF Base East Sale (the Site);

> the "Offsite Monitoring Area" is defined as seven privately owned properties to the east and south-east of the Site and The Heart Morass wetland;

> the "Heart Morass Monitoring Area" forms part of the Offsite Monitoring Area and incorporates public land to the south and south-east of the Site.

These areas are shown in Figure 1, Appendix A.

1.2 Purpose & Objectives

The objective of the OMP is to assess the changes in the nature and extent of PFAS in groundwater, surface water and sediment, specifically where there is an identified potentially elevated risk to a receptor or a potential future risk to a receptor associated with Defence's historical use of Aqueous Film Forming Foam (AFFF) including PFAS. The OMP will also provide information on our current understanding of risk.

The purpose of this PFAS OMP factual report is to provide an up-to-date status of the condition of the site as it is currently understood in relation to the most recent sampling event.

The objectives of the report are:

> To provide a succinct summary of the November 2023 annual sampling event and provision of analytical results with supporting tables and figures.

> To provide confirmation of the current understanding of risk.

> To provide supporting data for the assessment of management actions, where relevant.

1.3 Relevant Guidelines

This assessment has been undertaken in general accordance with applicable industry standards for a site investigation for the purpose, objectives and scope identified in this report. These standards are set out in:

> Australian and New Zealand Guidelines, 2018, *Australian and New Zealand Guidelines for Fresh and Marine Water Quality.*

> Heads of Environmental Protection Authority's Australia and New Zealand (HEPA), 2020, *PFAS National Environmental Management Plan (NEMP),* Version 2.0, January 2020.

> National Environment Protection Council (NEPC; 2013), *National Environmental Protection (Assessment of Site Contamination) Measure (as amended 2013)* (ASC NEPM).

> National Health and Medical Research Council (NHMRC), 2019, *Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water*.

> Standards Australia, 1998, AS/NZ 5667:1998 *Water quality – sampling*.

> United States Environmental Protection Agency (USEPA), 2006, '*Guidance for the Data Quality Objectives Process (EPA QA/G-4)*'.

> USEPA, 2002, '*Guidance on Environmental Data Verification and Data Validation (EPA A/240/R-02/004)*'.

2 Scope of Work

Cardno carried out the following tasks in order to satisfy the purpose and objectives of this assessment.

2.1 Review / Revision of the SAQP

The SAQP (Cardno, 2023a) was revised to reflect changes in the revised OMP (Senversa, 2023) and to address recommendations raised by Defence. The SAQP will be reviewed and further revised (as required) prior to the next monitoring event scheduled for November 2024.

2.2 Groundwater Monitoring

Sampling of groundwater monitoring wells was performed in accordance with the SAQP, applying methods set out in Section 3.1 of this report. The groundwater monitoring wells monitored as part of the OMP annual event are presented in Table 2-1, and are shown in Figure 5, Appendix A.

Table 2-1 Groundwater Monitoring Locations

Target Area	Aquifer	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site Locations				
On-Site, North-west Area	Upper Alluvium	MW306, MW315, MW326, MW607, MW609, MW610, MW612, MW724, MW725, MW726, MW728, MW733, MW734	13	Locations target groundwater within and downgradient of: ▪ Source ID 1 (MEOMS – Waste Disposal), ▪ Source ID 2 (MEOMS – Operational Areas), ▪ Source ID 3 (MEOMS – Fire Truck Hose Testing) ▪ Source ID 4 (Former Fire Station) ▪ Source ID 5(Chemical Storage Area) ▪ Source ID 14 (Grassed Area near MEOMS)
	Haunted Hills	MW737	1	Location targets groundwater within and downgradient of: ▪ Source ID 2 (MEOMS – Operational Areas)
On-Site, Central Area	Upper Alluvium	MW636, MW707, MW712, MW714, MW716, MW730, MW738	7	Locations target groundwater within: ▪ Source ID 13 (Current Fire Training and Former Sewage Treatment) Locations target groundwater downgradient of: ▪ Source ID 7 (Former Waste Burial Area-south) ▪ Source ID 8 & 9 (Former Fire Training Areas) ▪ Source ID 12 (4WD Training Track)
	Haunted Hills	MW729	1	Location targets groundwater within and downgradient of: ▪ Source ID 11 (AFFF Testing Area)
On-Site, Central/Eastern Area	Upper Alluvium	MW719, MW720	2	Locations target groundwater within and downgradient of: ▪ Source ID 6 (Current Fire Station) ▪ Source ID 16 (Grassed area near runways)

Target Area	Aquifer	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site, Southern Area	Upper Alluvium	MW201, MW202, MW616, MW617, MW622, MW623, MW626, MW627, MW628, MW702, MW708, MW709, MW711, MW715, MW735	15	Locations target groundwater within and downgradient of: ▪ Source ID 7 (Former Waste Burial Area (south) ▪ Source ID 8 & 9 (Former Fire Training Areas) ▪ Source ID 12 (4WD Training Track)
	Lower Alluvium	MW323, MW324, MW701, MW704, MW739, MW740, MW741	7	
	Haunted Hills	MW705	1	Locations target groundwater within: ▪ Source ID 7 (Former Waste Burial Area-south)
On-Site, South-west Area	Upper Alluvium	MW325, MW603	2	Locations target groundwater within and downgradient of: ▪ Source ID 13 (Current Fire Training and Former Sewage Treatment)
Off-Site Locations				
Off-Site Monitoring Wells	Upper Alluvium	MW015, MW304, MW316	3	Location targets off-Site areas, including private properties downgradient of the Site.
	Lower Alluvium	MW008, MW010, MW016, MW310, MW318	5	
	Haunted Hills	MW009, MW312, MW321	3	
	Boisdale	MW014	1	
	Point of Use	MW302, MW319, POT027, POT034, POT042, POT050, POT051	7	

2.3 Surface Water Monitoring

Sampling of surface water locations was performed in accordance with the SAQP, applying methods set out in Section 3.2 of this report. The surface water sampling locations monitored as part of the OMP are presented in Table 2-2, and are shown in Figure 6, Appendix A.

Table 2-2 Surface Water Monitoring Locations

Target Area	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site Locations			
On-Site, Drain Discharging Offsite (North-west Corner of Site)	SW201	1	Location targets surface water downstream of Source ID 1 (MEOMS – Waste Disposal) and Source ID 14 (Grassed Area near MEOMS)

Target Area	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site, Western Drainage Network	SW203, SW206, SW208, SW217, SW222, SW223, SW226, SW227, SW230, SW242, SW246, SW252, SW351, SW353, SW366	15	Locations target surface water within and downstream of the Western Drainage Network
On-Site, Eastern Drainage Network	SW209, SW216, SW231, SW233, SW238, SW239, SW251, SW256, SW257, SW258,	10	Locations target surface water within and downstream of the Eastern Drainage Network
Off-Site Locations			
Off-Site, Off-Site Drain (North-west Corner of Site)	SW049	1	Location targets surface water flowing into the north irrigation channels, ultimately flowing into Lake Wellington
Off-Site, Inflow to Heart Morass	SW001, SW002, SW033	3	Locations target surface water within and downstream of the source area, discharging into the Heart Morass
Off-Site, Heart Morass Monitoring Area	SW004, SW011, SW014, SW015, SW016, SW019, SW030, SW031, SW032, SW034, SW035, SW041, SW052, SW082, SW088, SW089, SW092, SW277	18	Locations target surface water within the Heart Morass
Off-Site, Flooding Creek	SW077	1	Location targets surface water within the Flooding Creek
Off-Site, Latrobe River	SW012, SW080, SW093	3	Locations target surface water within the Latrobe River

2.4 Sediment Monitoring

Sampling of sediment locations was performed in accordance with the SAQP, applying methods set out in Section 3.3 of this report. The sediment sampling locations monitored as part of the OMP are presented in Table 2-3, and are shown in Figure 7, Appendix A.

Table 2-3 Sediment Monitoring Locations

Target Area	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site Locations			
On-Site, Off-Site Drain (North-west Corner of Site)	SD201	1	Location targets sediment downstream of Source ID 1 (MEOMS – Waste Disposal) and Source ID 14 (Grassed Area near MEOMS)
On-Site, Western Drainage Network	SD206, SD208, SD217 SD223, SD226, SD227, SD230, SD242, SD246	9	Locations target sediment within and downstream of the Western Drainage Network
On-Site, Eastern Drainage Network	SD209, SD216, SD231, SD233, SD239, SD247, SD249, SD251, SD256, SD257, SD258, SD259, SD260	13	Locations target sediment within and downstream of the Eastern Drainage Network
Off-Site Locations			

Target Area	Monitoring Location	Total Number of Monitoring Locations	Justification
Off-Site, Off-Site Drain (North-west Corner of Site)	SD049	1	Location targets sediment within the north irrigation drainage channels, ultimately flowing into Lake Wellington
Off-Site, Eastern Main Drainage Outlet	SD001, SD033	2	Locations target sediment within and downstream of the Easter Main Drainage Outlets into Heart Morass
Off-Site, Heart Morass Monitoring Area	SD011, SD014, SD015, SD016, SD019, SD030, SD031, SD032, SD034, SD035, SD041, SD052, SD082, SD088, SD089, SD268, SD270, SD276	18	Locations target sediment within the Heart Morass

2.5 Data Management

All the data included in the report have been collected, uploaded to the ESdat database and reviewed according to the data management requirements of the Defence Contamination Management Manual (DCMM) Annex L (Defence, 2021b).

2.6 Deviations from the OMP SAQP

Deviations from the SAQP were attributed to a lack of sampling media or access constraints as summarised in Table 2-4. On-site and off-site sampling and testing was planned at 68 groundwater monitoring wells, 52 surface water locations and 44 sediment locations, but was only completed at 67 groundwater monitoring wells, 40 surface water locations and 40 sediment locations. Further details of why sampling could not be completed at some locations are provided in Table 2-4.

Table 2-4 Deviations from the SAQP

Location	Deviation	Comment/Justification	Impact on Existing Dataset
Groundwater			
MW610	Not Sampled	Unable to open well cap	Moderate impact – Location located within a source area; Mechanical Equipment Operations and Maintenance Section (MEOMS). Concentrations have consistently reported above criteria. Location last sampled in the August 2022 sampling event, where sampling frequency has changed from quarterly to annual since the November 2022 event.
Surface Water			
SW030	Not Sampled	Dangerous access conditions	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Downstream locations have been sampled in this event.
SW201	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Downstream location has been sampled in this event.
SW206	Not Sampled	Access blocked by placement of large skip bin	Minor impact – Location last sampled in the November 2021 sampling event. Downstream locations have been sampled in this event.

Location	Deviation	Comment/Justification	Impact on Existing Dataset
SW208	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Further downstream locations have been sampled in this event.
SW216	Not Sampled	Location dry	Minor impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria.
SW217	Not Sampled	Location dry	Minor impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria.
SW222	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Downstream locations have been sampled in this event.
SW226	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria. Further downstream locations have been sampled in this event.
SW242	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria.
SW353	Not Sampled	Location dry	Minimal impact – Location last sampled in the November 2022 sampling event. Concentrations have consistently reported above criteria.
SW366	Not Sampled	Location dry	Potential data gap – The November 2023 sampling event is the first inclusion of SW366 as a sampling point.
Sediment			
SD030	Not Sampled	Dangerous access conditions	Minimal impact – Location last sampled in the November 2022 sampling event. Downstream locations have been sampled in this event.
SD206	Not Sampled	Access blocked by placement of large skip bin	Minor impact – Location last sampled in the July 2021 sampling event. Downstream locations have been sampled in this event.
SD208	Not Sampled	No sediment at location	Minimal impact – Location last sampled in the November 2022 sampling event. Further downstream locations have been sampled in this event.
SD216	Not Sampled	No sediment at location	Minor impact – Location last sampled in the January 2021 sampling event.

3 Methodology

3.1 Groundwater Sampling Methodology

Groundwater monitoring was undertaken as detailed in Table 3-1.

Table 3-1 Groundwater Sampling Method

Activity	Details
Dates of Field Activity	13 November to 24 November 2023 (including initial gauging round)
Well Gauging	Standing Water Levels (SWL) were gauged using an interface probe. All wells were measured against a specified mark at the top of the well casing.
Groundwater Field Parameters	Groundwater water quality parameter field measurements (field parameters) were recorded with a water quality meter before sample collection (with the sample in a clean jar). The following field parameters were recorded using a water quality meter: ▪ pH. ▪ Electrical conductivity (EC). ▪ Oxidation reduction potential (ORP). ▪ Dissolved oxygen (DO). ▪ Temperature. Field parameters measured by the water quality meter were recorded on field data records. All field instruments (e.g. water quality meter) were calibrated by the equipment supplier to optimise the accuracy of the measurements taken. Bump tests were also completed daily by field staff during the monitoring event. Calibration certificates and bump test records are provided in Appendix D.
Deployment of HydraSleeve®	The HydraSleeves® were deployed during the gauging round with attached weights in order for sample collection to begin at the lowest point of the well screen. All existing HydraSleeve® were left in wells for a minimum of 24 hours to allow restabilisation of the well following the slight disturbance caused by sampler deployment, before sampling. HydraSleeves® were not replaced after sampling at each location.
Retrieval of HydraSleeves® (Sample Collection)	Samples were collected via continuous pull method at a rate allowing the water to pass through the check valve into the sample sleeve. Samples were discharged immediately (to minimise changes in chemistry) via a discharge tube. Where insufficient water was available for HydraSleeve® sampling, 3 monitoring well volumes were removed by bailer, or the well was purged dry, prior to bailer sample collection.
Decontamination procedure	Single-use HydraSleeves® were used at each groundwater monitoring well, thus removing the need for decontamination. Where HydraSleeves® could not be used, dedicated bailers were used instead which also did not require decontamination. All re-usable sampling equipment (e.g. interface probe) was thoroughly washed using PFAS-free & phosphate-free detergent, then double rinsed with clean water before the sample collection.
Sample identification, preservation transport and holding times	Each sample was labelled with the sample location, date, project identification number and sampler's initials. Samples were collected directly into appropriately preserved laboratory supplied bottles (Teflon-free) and packed in chilled containers for delivery to the laboratory under Chain of Custody (CoC) documentation. Sample containers, preservation procedures, sample storage requirements and holding times were undertaken in accordance with those recommended by Standards Australia (AS/NZS 5667.1:1998) and a document of state of knowledge (AS 4482.1) as appropriate.
Laboratory Testing	All groundwater samples were analyzed for the full PFAS analytical suite (see SAQP for full list of analytes). The primary laboratory was ALS Global Laboratories (Springvale), and the secondary laboratory (quality control) was Eurofins (Dandenong South). Both laboratories are NATA-accredited for the parameters tested. Copies of the NATA stamped laboratory reports and Chain of Custody documentation are included in Appendix C.

Activity	Details
Laboratory Testing – Quality Control	Groundwater quality control samples were collected as follows and analysed for the full PFAS analytical suite: ▪ Field duplicate (intra-laboratory) samples at 1 per 10 water samples (7 samples taken this event). ▪ Field triplicate (inter-laboratory) samples at 1 per 10 water samples (7 samples taken this event). ▪ Rinsate blank samples at 1 per day per set of equipment [collected off re-used sampling/down-hole equipment (e.g. interface probe)] (14 total samples were collected for this field event, 7 samples were analysed). ▪ Trip blank samples of 1 per shipment included in the chilled sample containers upon transport to the laboratory (5 samples total for this field event).

3.2 Surface Water Sampling Methodology

Surface water monitoring was undertaken using a grab method as detailed in Table 3-2.

Table 3-2 Surface Water Sampling Method

Item	Details
Dates of Field Activity	15 November to 23 November 2023
Water Level Gauging	Water level gauging was performed at select surface water locations within the Eastern Main Drain and referenced against the survey reference marks.
Field parameters	Surface water field parameters (i.e. pH, EC, ORP, DO, and temperature) were recorded at the time of sampling using a pre-calibrated water quality meter. Field observations such as turbidity, presence of odours, sheen, oily films, nuisance organisms, floating debris and flow rate were also recorded on field sampling forms.
Sampling Method	Where possible, the samples were collected directly into sample containers. The sample bottles were positioned at least 10 cm below the water surface and above the sediment bed and orientated with the opening facing downwards to avoid the collection of surface films. Where access to surface water samples was difficult, the samples were collected using a long-handled sampling device with a container (scoop) that was lowered directly into the water body. Samples were then decanted into the laboratory-supplied sample containers. Samples were collected in accordance with Australian/New Zealand Standards (AS/NZS 5667.1:1998) '*Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*'.
Decontamination	All re-usable sampling equipment was thoroughly washed using phosphate-free detergent (Liquinox), and subsequently double-rinsed with clean water before the sample collection.
Sample identification, preservation, transport and holding times.	Each sample was labelled with the sample location, date, project identification number and sampler's initials. Sample labelling and naming was in accordance with Annex L of the DCMM. Samples were contained in appropriately preserved laboratory supplied bottles (Teflon-free) and packed in chilled containers for delivery to the laboratory under Chain of Custody (COC) documentation. Sample containers, preservation procedures, sample storage requirements and holding times were undertaken in accordance with those recommended by Standards Australia (AS/NZS 5667.1:1998) and the National Environment Protection Measure (ASC NEPM:1999).
Laboratory Testing	All surface water samples were analysed for the full PFAS analytical suite (see SAQP for full list of analytes). The primary laboratory was ALS Global Laboratories (Springvale), and the secondary laboratory (quality control) was Eurofins (Dandenong South). Both laboratories are NATA-accredited for the parameters tested. Copies of the NATA stamped laboratory reports and Chain of Custody documentation are included in Appendix C.

Item	Details
Laboratory Testing – Quality Control	Surface water quality control samples were collected as follows and analysed for the full PFAS analytical suite: ▪ Field duplicate (intra-laboratory) samples at 1 per 10 water samples (5 samples). ▪ Field triplicate (inter-laboratory) samples at 1 per 10 water samples (5 samples). ▪ Rinsate blank samples at 1 per day per set of equipment [collected off re-used sampling equipment (e.g. long-handled sampling device)] (14 total samples were collected for this field event, 7 samples were analysed). ▪ Trip blank samples of 1 per shipment included in the chilled sample containers upon transport to the laboratory (5 samples total for this field event).

3.3 Sediment Sampling Methodology

Sediment monitoring was undertaken as detailed in Table 3-3.

Table 3-3 Sediment Sampling Method

Item	Details
Dates of Field Activity	15 November to 23 November 2023
Sample Collection	Sediment samples were collected at the sediment/water interface using the required hand tools (trowel, sediment sampler or hand auger), with samples placed directly into appropriately labelled, laboratory supplied sample containers and packed in chilled containers for delivery to the laboratory under Chain of Custody documentation. At each sampling location, the sediment sample was visually assessed and observations (including physical description) recorded on field data forms.
Decontamination	All re-usable sampling equipment were thoroughly washed using phosphate-free detergent (Liquinox), and subsequently double rinsed with clean water before the sample collection.
Sample identification, preservation, transport and holding times.	Each sample was labelled with the sample location, date, project identification number and sampler's initials. Sample labelling and naming was in accordance with Annex L of the DCMM. Samples were contained in appropriately preserved laboratory supplied bottles (Teflon-free) and packed in chilled containers for delivery to the laboratory under Chain of Custody (COC) documentation. Sample containers, preservation procedures, sample storage requirements and holding times were undertaken in accordance with those recommended by Standards Australia (AS/NZS 5667.1:1998) and the National Environment Protection Measure (ASC NEPM:1999).
Laboratory Testing	All sediment samples were analysed for the full PFAS analytical suite (see SAQP for full list of analytes). The primary laboratory was ALS Global Laboratories (Springvale), and the secondary laboratory (quality control) was Eurofins (Dandenong South). Both laboratories are NATA-accredited for the parameters tested. Copies of the NATA stamped laboratory reports and Chain of Custody documentation are included in Appendix C.
Laboratory Testing – Quality Control	Sediment quality control samples were collected as follows and analysed for the full PFAS analytical suite: ▪ Field duplicate (intra-laboratory) samples at 1 per 10 soil samples (6 samples). ▪ Field triplicate (inter-laboratory) samples at 1 per 10 soil samples (6 samples). ▪ Rinsate blank samples at 1 per day per set of equipment [collected off re-used sampling equipment (e.g. sediment sampler)] (14 total samples were collected for this field event, 7 samples were analysed). ▪ Trip blank samples of 1 per shipment included in the chilled sample containers upon transport to the laboratory (5 samples total for this field event).

3.4 Quality Control / Quality Assurance

A critical aspect of site assessments is the demonstration of the quality of the data used as the basis for the assessment. This is achieved through a Data Validation process which includes a review of the following data quality indicators, as described in the SAQP:

- QA documentation.
- Bias.
- Data Representativeness.
- Data Precision & Accuracy.
- Data Comparability.
- Data Set Completeness.

A detailed review of these aspects has been undertaken, the results of which are presented in Appendix E. A summary of the data validation from the QA/QC review is included in Section 4.5 below.

3.5 Assessment Criteria

3.5.1 Groundwater and Surface Water

The PFAS screening criteria adopted for groundwater and surface water in this SAQP, and in the OMP (Senversa, 2023), were adopted based on the guidance in PFAS NEMP (HEPA, 2020). The adopted screening criteria for groundwater and surface water are detailed in Table 3-4. Screening levels will be reviewed and updated (if deemed necessary) as part of the OMP review process.

Table 3-4 Criteria for Groundwater and Surface Water

Exposure Scenario	Adopted Assessment Criteria			Guidance
	PFOS	PFHxS + PFOS	PFOA	
	µg/L			
Human Health - Surface Water Recreational	-	2[2]	10	PFAS NEMP (HEPA, 2020)
Human Health - Drinking Water Quality Guideline[1]	-	0.07[2]	0.56	PFAS NEMP (HEPA, 2020)
Ecological (99% species protection – high conservation value systems)	0.00023[3]	-	19	PFAS NEMP (HEPA, 2020)

Notes:

1. Drinking Water screening guidelines have been adopted for screening purposes for Industrial Water use, Stock Water use and Agriculture/Parks/Gardens Water use.
2. Combined PFOS and PFHxS.
3. PFOS only; The criterion of 0.00023 µg/L is lower than the laboratory level of reporting (LOR), however, the PFAS NEMP (HEPA, 2020) allows for the adoption of the laboratory LOR as a screening level rather than a quantified measurement. The LOR for PFOS to assess the adopted Ecological criterion is 0.01 µg/L.

3.5.2 Sediment

It is noted that there are currently no Australian regulatory endorsed assessment levels for risk posed to ecology or human health by PFAS in sediment.

4 Field Observations and Results

4.1 Conditions Impacting the Sampling Event

In the seven days prior to the sampling event, 11.2 mm of rain was recorded at the nearest weather station (085314), located approximately 1 km south of the site. November 2023 rainfall totalled at 87.6 mm, which is higher than the monthly November average between 2017 and 2022 of 63.9 mm. In months prior to the sampling event, September 2023 rainfall totalled at 21.4 mm which was lower than the monthly September average between 2018 and 2022 of 35.2 mm. October 2023 rainfall totalled at 166.6 mm, which was significantly higher than the monthly October average between 2017 and 2022 of 60.0 mm.

Increased regional rainfall prior to the sample event resulted in elevated water levels at multiple off-site locations, in particular around the Heart Morass Wetland. However, in comparison to the most recent event in November 2022, flooding conditions were less significant and water levels were lower, as mentioned in

Section 4.3.1.2. Therefore, there were no locations that were unable to be accessed and sampled due to dangerously high water levels.

No on-site or off-site activities with the potential to impact sample collection or the results were noted.

4.2 Groundwater

4.2.1 Summary of Field Observations

4.2.1.1 Water quality parameter field measurements

Stabilised water quality parameter field measurements, water colour and turbidity observations recorded during the groundwater sampling program are presented in field sampling record sheets, included in Appendix D. Water quality parameter field measurements were generally consistent with historical parameters and with the latest GME in November 2022. Groundwater varied from clear to brown with zero to high turbidity. No parameters were recorded at MW302 due to a software malfunction. No significant changes were recorded relative to previous monitoring events.

4.2.1.2 Groundwater Elevation and Migration

Groundwater elevation ranges encountered for the three aquifers during this sampling event are as follows:

- Shallow aquifer (Upper Alluvium) – from 1.068 mAHD (MW316) to 5.838 mAHD (MW734).
- Intermediate aquifer (Lower Alluvium) – from 0.656 mAHD (MW741) to 5.420 mAHD (MW010).
- Deep aquifer (Haunted Hills Formation) – from 1.152 mAHD (MW321) to 5.266 mAHD (MW737).

Groundwater elevation encountered across the Monitoring Area during the November 2023 event were generally consistent with the November 2022 event.

Groundwater flow for all three aquifers was interpreted to be in a south-easterly direction towards Heart Morass and Latrobe River, consistent with previous monitoring events. Contour plans are included in Figures 2, 3 and 4, Appendix A. Gauging records are presented in Appendix D.

4.2.2 Groundwater Laboratory Results

The results of laboratory analysis have been compared against adopted assessment criteria, and are presented in Table B1, Appendix B, and summarised in Table 4-1 below. Of the 67 primary samples that were tested, PFOA was reported above the limit of reporting in 40 samples, PFOS in 59 samples, and Sum of PFHxS and PFOS in 58 samples.

Table 4-1 Summary of Groundwater Results Exceeding Adopted Criteria

Analytes	Locations Exceeding Criteria	Lowest Criteria (µg/L)	Max Conc. (µg/L)	No. Analytical Results >LOR	No. Results Above Criteria	Significant Concentration Changes[3]
PFOS	MW008, MW009, MW015, MW016, MW201, MW202, MW302, MW304, MW306 MW310, MW315, MW316, MW318, MW319, MW321, MW323, MW324, MW325, MW326, MW603, MW607, MW609, MW612, MW616, MW617, MW622, MW623, MW626, MW627, MW628, MW636, MW702, MW704, MW705, MW707, MW708, MW709, MW711, MW714, MW715, MW716, MW719, MW720, MW724, MW725, MW726, MW728, MW729, MW730, MW733, MW734, MW735, MW737, MW738, MW739, MW740, MW741, POT042, POT051	0.01*	3,070	59	59	MW312 (decrease) MW321 (increase) POT042 (increase) POT051 (increase)

Analytes	Locations Exceeding Criteria	Lowest Criteria (µg/L)	Max Conc. (µg/L)	No. Analytical Results >LOR	No. Results Above Criteria	Significant Concentration Changes[3]
PFOA	MW201, MW202, MW306, MW315, MW323, MW324, MW325, MW616, MW622, MW627, MW704, MW719, MW720, MW726, MW738	0.56[1]	423	40	15	MW607 (decrease)
Sum of PFHxS and PFOS	MW008, MW009, MW015, MW016, MW201, MW202, MW304, MW306, MW310, MW315, MW318, MW321, MW323, MW324, MW325, MW326, MW603, MW607, MW609, MW612, MW616, MW617, MW622, MW623, MW626, MW627, MW628, MW636, MW702, MW704, MW705, MW707, MW708, MW709, MW711, MW715, MW716, MW719, MW720, MW724, MW725, MW726, MW728, MW729, MW730, MW733, MW734, MW735, MW737, MW738, MW739, MW740, MW741, POT042, POT051	0.07[1]	7,540	58	55	MW312 (decrease) MW321 (increase) MW607 (decrease) POT042 (increase) POT051 (increase)

1. Drinking water assessment criteria
2. Ecological assessment criteria
3. Significant concentration change defined as an order of magnitude (10x) increase or decrease.

* PFOS only; The criterion of 0.00023 µg/L is lower than the laboratory level of reporting (LOR), however, the PFAS NEMP 2020 allows for the adoption of the laboratory LOR as a screening level rather than a quantified measurement

Results have also been compared to available historical data. The following locations have reported a significant change in concentration for this monitoring event:

- MW312: PFOS has decreased by one order of magnitude from a previous result of 0.17 µg/L in November 2022 to <0.01 µg/L in this event. Sum of PFHxS and PFOS has decreased by one order of magnitude from a previous result of 0.25 µg/L in November 2022 to <0.01 µg/L in this event.
- MW321: PFOS has increased by one order of magnitude from a previous result of <0.01 µg/L in November 2022 to 0.11 µg/L in this event. Sum of PFHxS and PFOS has increased by one order of magnitude from a previous result of <0.01 µg/L in November 2022 to 0.15 µg/L in this event.
- MW607: PFOA has decreased by one order of magnitude from a previous result of 0.89 µg/L in November 2022 to 0.03 µg/L in this event. Sum of PFHxS and PFOS has decreased by one order of magnitude from a previous result of 33.6 µg/L in November 2022 to 2.26 µg/L in this event.
- POT042: PFOS has increased by one order of magnitude from a previous result of 0.02 µg/L in November 2022 to 0.38 µg/L in this event. Sum of PFHxS and PFOS has increased by one order of magnitude from a previous result of 0.04 µg/L in November 2022 to 0.44 µg/L in this event.
- POT051: PFOS has increased by one order of magnitude from a previous result of <0.01 µg/L in November 2022 to 0.37 µg/L in this event. Sum of PFHxS and PFOS has increased by one order of magnitude from a previous result of <0.01 µg/L in November 2022 to 0.39 µg/L in this event.

All other concentrations reported during this event were generally consistent with previous sampling events (i.e. no significant concentration changes).

A summary of locations where a first-time detection of PFOS, Sum of PFHxS and PFOS or PFOA or a new exceedance of lowest adopted guideline values were reported is provided in Table 4-2 below. The laboratory reports are provided in Appendix C.

Table 4-2 Summary of Groundwater Results with First-time Detections or Exceedances

Deviation Type	Monitoring Well	Sum of PFHxS + PFOS concentration (µg/L)		PFOA concentration (µg/L)		PFOS concentration (µg/L)	
		November 2023	Previous Maximum	November 2023	Previous Maximum	November 2023	Previous Maximum
First-time detections	MW009	**0.79**	**0.15**	0.01	<0.01	**0.59**	**0.12**
New exceedance of lowest adopted guideline values	MW015	**0.11**	0.05	<0.01	<0.01	**0.08**	**0.02**
	MW318	**0.14**	0.06	<0.01	<0.01	**0.11**	**0.04**
	MW321	**0.15**	0.04	<0.01	<0.01	**0.11**	**0.04**

Note:
Location with first-time detection of PFOS + PFHxS, PFOA or PFOS in latest monitoring round
Location with a new exceedance of lowest adopted guideline values in latest monitoring round
Bold: Exceedance of lowest adopted guideline values

4.2.3 Summary of Monitoring Network Condition and Repairs

The monitoring network was observed to be generally in good condition.

- MW326: Maintenance was performed on the location. The gatic bolt lugs was rethreaded due to wear and dirt buildup and was cleaned. Post cleaning, the gatic lid was not capable of being closed and sealed with bolts due to the well cap extending out of the gatic.
- MW610: Location gatic lid could be removed, however the well cap could not be removed despite considerable effort to remove it by two field staff. The well could not be gauged or sampled in this event.
- POT042 and POT051: Monitoring well PVC casing for both sampling locations is damaged. Both sampling locations PVC monitoring casing are snapped near ground level and currently do not have a well cap to enclose the well.

4.3 Surface Water

4.3.1 Summary of Field Observations

4.3.1.1 Water quality parameter field measurements

Stabilised water quality parameter field measurements, water colour and turbidity observations as well as the presence of nuisance organisms, oily films, odour, floating debris and frothing recorded (if observed) during the surface water sampling program are presented in field sampling record sheets, included in Appendix D.

4.3.1.2 Surface Water Elevation

Surface water elevation was measured for locations SW235, SW237, SW251, SW258, SW259 and SW260 along the Eastern main Drain, presented in field data in Appendix D. SW257 is also routinely measured as per the SAQP (Cardno, 2023a), however was not measured in this event as the water level marker became generally unsafe and inaccessible due to dense vegetation growth and snake encounters.

Surface water flow across all locations varied from stagnant and low in confined surface water locations including stormwater drains, to moderately flowing within the Latrobe River.

Sampling locations within the Heart Morass wetland (SW011, SW012, SW014, SW015, SW016, SW031, SW052, SW080, SW082, SW088, SW089 and SW277) were previously inaccessible during the November 2022 event when water levels were elevated, ranging between 0.810 m to 1.132 m as measured at gauge 226611[1]. Water levels were lower in the following event in November 2023, ranging between 0.163 m and

0.246 m, which allowed previously inaccessible sampling locations to be successfully sampled during this event.

Additionally, data loggers recording water level, temperature and conductivity data were successfully downloaded at all locations outlined in the SAQP (Cardno, 2023a). Data loggers were cleared after data download and set to continue logging in 30-minute intervals as stated in the SAQP prior to redeployment. One data logger piezometer (DL17) was observed to be damaged whereby the PVC stickup appears to have snapped and was no longer standing upright.

4.3.2 Surface Water Laboratory Results

The results of laboratory analysis have been compared against adopted assessment criteria, presented in Table B2, Appendix B, and summarised in Table 4-3 below. Of the 40 primary samples that were tested, PFOS was reported above the limit of reporting in 36 samples, PFOA in 17 samples, and Sum of PFHxS and PFOS in 36 samples.

Table 4-3 Summary of Surface Water Results Exceeding Adopted Criteria

Analytes	Locations Exceeding Criteria	Lowest Criteria (µg/L)	Max Conc. (µg/L)	No. Analytical Results >LOR	No. Results Above Criteria	Significant Concentration Changes[3]
PFOS	SW001, SW002, SW004, SW011, SW014, SW015, SW016, SW019, SW031, SW032, SW034, SW035, SW041, SW052, SW077, SW082, SW088, SW089, SW092, SW203, SW209, SW223, SW227, SW230, SW231, SW233, SW238, SW239, SW246, SW251, SW252, SW256, SW257, SW258, SW277, SW351	0.01*	15.2	36	36	SW049 (decrease)
PFOA	-	0.56[1]	0.34	17	0	SW203 (decrease)
Sum of PFHxS and PFOS	SW001, SW002, SW004, SW011, SW016, SW034, SW035, SW041, SW052, SW088, SW089, SW203, SW209, SW223, SW227, SW230, SW231, SW233, SW238, SW239, SW246, SW251, SW252, SW256, SW257, SW258, SW277, SW351	0.07[1]	19.3	36	28	SW049 (decrease)

1. Drinking water assessment criteria
2. Ecological assessment criteria
3. Significant concentration change defined as an order of magnitude (10x) increase or decrease

* PFOS only; The criterion of 0.00023 µg/L is lower than the laboratory level of reporting (LOR), however, the PFAS NEMP 2020 allows for the adoption of the laboratory LOR as a screening level rather than a quantified measurement

Results have also been compared to available historical data. The following locations have reported a significant change in concentration for this monitoring event:

- SW049: PFOS has decreased by one order of magnitude from a previous result of 0.94 µg/L in November 2022 to <0.01 µg/L in this event. Sum of PFHxS and PFOS has decreased by one order of magnitude from a previous result of 1.67 µg/L in November 2022 to <0.01 µg/L in this event.
- SW203: PFOA has decreased by one order of magnitude from a previous result of 1.00 µg/L in November 2022 to 0.07 µg/L in this event.

All other concentrations reported during this event were generally consistent with previous sampling events (i.e. no significant concentration changes).

No first-time detections of PFOS, Sum of PFHxS and PFOS or PFOA or new exceedances of lowest adopted guideline values were reported for surface water during this event.

4.4 Sediment

4.4.1 Summary of Field Observations

Odour, colour and other observations recorded during the sediment sampling program are presented in field sampling record sheets, included in Appendix D. Field observations were generally consistent with the previous monitoring event in November 2022. Sediment samples varied from brown to dark-brown, fine to coarse grained, mostly odourless and in some cases having an organic or sulphurous odour. Some samples included organic matter such as roots, plants, reeds, and leaf debris.

4.4.2 Sediment Laboratory Results

National assessment criteria have not been established for PFAS in sediment. The results of laboratory analysis have been compared against historical results, presented in Table B3, Appendix B and summarised below.

Of the 40 primary samples that were tested, PFOS was reported above the limit of reporting in 38 samples, PFOA in 22 samples, and Sum of PFHxS and PFOS in 39 samples.

Results have also been compared to available historical data. The following locations have reported a significant change in concentration for this monitoring event:

- SD032: PFOS has increased by one order of magnitude from a previous result of <0.0002 mg/kg in November 2022 to 0.0035 mg/kg in this event. Sum of PFHxS and PFOS has increased by one order of magnitude from a previous result of <0.0002 mg/kg in November 2022 to 0.0040 mg/kg in this event.
- SD049: PFOS has decreased by one order of magnitude from a previous result of 0.0520 mg/kg in November 2022 to <0.0002 mg/kg in this event. Sum of PFHxS and PFOS has decreased by one order of magnitude from a previous result of 0.0588 mg/kg in November 2022 to <0.0002 mg/kg in this event.
- SD088: PFOS has decreased by one order of magnitude from a previous result of 0.180 mg/kg in August 2022 to 0.0166 mg/kg in this event. Sum of PFHxS and PFOS has decreased by one order of magnitude from a previous result of 0.187 mg/kg in August 2022 to 0.0174 mg/kg in this event.
- SD276: PFOS has decreased by one order of magnitude from a previous result of 0.259 mg/kg in August 2022 to 0.0245 mg/kg in this event. Sum of PFHxS and PFOS has decreased by one order of magnitude from a previous result of 0.274 mg/kg in November 2022 to 0.0255 mg/kg in this event.

A summary of locations where a first-time detection of Sum of PFHxS and PFOS or PFOA or a new exceedance of guideline values were reported is provided in Table 4-4 below. The laboratory reports are provided in Appendix C.

Table 4-4 Summary of Sediment Results with First-time Detections or Exceedances

Deviation Type	Monitoring Well	Sum of PFHxS + PFOS concentration (µg/L)		PFOA concentration (µg/L)		PFOS concentration (µg/L)	
		November 2023	Previous Maximum	November 2023	Previous Maximum	November 2023	Previous Maximum
First-time detections	SD011	0.0187	0.0707	**0.0003**	<0.0004	0.0150	0.0678

Note:
Location with first-time detection of PFOS + PFHxS, PFOA or PFOS in latest monitoring round
Location with a new exceedance of lowest adopted guideline values in latest monitoring round
Bold: Exceedance of lowest adopted guideline values
1. Result recorded on quality control (duplicate or split) sample

4.5 Data Validation

The data validation process has concluded that there are no significant systematic errors in the data collection process. Therefore, the data set used as the basis for the surface water and groundwater assessment is considered valid and complete. A detailed Data Quality Review is included in Appendix E.

4.6 Risk Profile

The risk profile, for the site is detailed in the latest Ongoing Monitoring Report provided by Cardno, now Stantec (Reference: '*Ongoing Monitoring Report (2021 – 2022) RAAF East Sale, DEF19008'*). Please refer to this for a detailed discussion.

5 Summary and Conclusions

Cardno conducted the November 2023 annual groundwater, surface water and sediment monitoring event at RAAF Base East Sale as part of the PFAS OMP. On-site and off-site sampling and testing was undertaken at 68 groundwater monitoring wells, 50 surface water locations and 44 sediment locations, where 67 groundwater samples, 40 surface water samples and 40 sediment samples were taken.

Groundwater levels were gauged in all accessible wells before sampling. Groundwater was interpreted to flow in a south-easterly direction towards the Heart Morass wetland, consistent with previous monitoring events.

Table 5-1 Summary of Results

Activity	Details
Deviations from OMP SAQP	> One groundwater location was not sampled as the well cap could not be removed for gauging and sampling (MW610). > Nine surface water locations were not sampled as the locations were dry at the time of sampling (SW201, SW208, SW216, SW217, SW222, SW226, SW242, SW353 and SW366). > One surface water and one sediment location were not sampled as access to the sampling location was deemed to put field staff in danger of hostile livestock (SW030 and SD030). > One surface water and one sediment location were not sampled as access to the stormwater drain was blocked by the placement of a large skip bin (SW206 and SD206). > Two sediment locations were not sampled as there was insufficient sediment for sampling (SD208 and SD216).
Groundwater Analytical Results	> 67 groundwater samples were collected in total. > 55 samples reported Sum of PFOS and PFHxS concentrations above the adopted human health criteria. > 59 samples reported PFOS concentrations above the adopted ecological criteria. > 15 samples reported PFOA concentrations above the adopted human health criteria. > One sample (MW009) reported a first-time detection of PFOA in this event. > Three samples (MW015, MW318 and MW321) reported a new exceedance of lowest adopted guideline values for Sum of PFHxS and PFOS in this event. > One sample reported an order of magnitude decrease for PFOS and Sum of PFHxS results compared to the previous time it was sampled (MW312). > Three samples reported an order of magnitude increase for PFOS and Sum of PFHxS and PFOS results compared to the previous time it was sampled (MW319, MW321, POT042, POT051) > One sample reported an order of magnitude decrease for PFOA and Sum of PFHxS and PFOS results compared to the previous time it was sampled (MW607). > All other results were generally consistent with results reported in the previous event.

Activity	Details
Surface Water Analytical Results	> 40 surface water samples were collected in total. > 28 samples reported Sum of PFHxS and PFOS concentrations above the adopted human health criteria. > There were no samples which reported PFOA concentrations above the adopted human health criteria. > 36 samples reported PFOS concentrations above the adopted ecological criteria. > One sample reported an order of magnitude decrease for PFOS and Sum of PFHxS compared to the previous time it was sampled (SW049). > One sample reported an order of magnitude decrease in PFOA results compared to the previous time it was sampled (SW203). > All other results were generally consistent with results reported in the previous event.
Sediment Analytical Results	> 40 sediment samples were collected in total. > One sample (SD011) reported a first-time detection of PFOA in this event. > No samples reported a first-time detection of PFOS or Sum of PFHxS and PFOS. > One sample reported an order of magnitude increase in PFOS and Sum of PFHxS and PFOS results compared to the previous time it was sampled (SD032). > Three samples reported an order of magnitude decrease in PFOS and Sum of PFHxS and PFOS results compared to the previous time they were sampled (SD049, SD088 and SD276). > All other sediment results were generally consistent with the previous monitoring event.
Next Scheduled Monitoring Event	> The next OMP monitoring event is scheduled for November 2024. > SAQP to be reviewed and updated as required prior to the next monitoring event. > It is recommended that repairs are undertaken for POT042 and POT051 prior to the next monitoring round. It is recommended that repair/maintenance is undertaken prior or during the next monitoring round for the well cap on MW610 to ensure it can be opened and sampled. It is also recommended that repairs are undertaken for DL17 as soon as possible.

6 References

General References

1. Australian and New Zealand Guidelines, (2018), *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*.
2. Department of Defence (2021a), Defence OMP Factual Report Preparation Guidance, Revised May 2021.
3. Department of Defence (2021b), Defence Contamination Management Manual (DCMM), Annex L – Data Management, August 2018, Amended June 2021.
4. Environmental Protection Agency (United States EPA; 2002), EPA/240/R-02/004 Guidance on Environmental Data Verification and Data Validation, November 2002.
5. The Heads of Environmental Protection Authority's Australia and New Zealand (HEPA; 2020), PFAS National Environmental Management Plan (NEMP) Version 2.0, January 2020.
6. National Environment Protection Council (NEPC; 2013), National Environmental Protection (Assessment of Site Contamination) Measure (as amended), registered May 2013.
7. National Health and Medical Research Council (2011 – updated 2018), National Water Quality Management Strategy Australian Drinking Water Guidelines, 6 August 2018.
8. Nation Health and Medical Research Council (NHMRC; 2019), Guidance on Per and Poly-fluoroalkyl Substances (PFAS) in Recreational Water, August 2019.
9. Standards Australia/Standards New Zealand (1998), AS5667.1:1998 *Water Quality – Sampling, Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.*

10. United States Environmental Protection Agency (USEPA) (2006), *Guidance for the Data Quality Objectives Process* (EPA QA/G-4), United States Environmental Protection Agency.

11. USEPA (2002), *Guidance on Environmental Data Verification and Data Validation*, Reference: EPA A/240/R-02/004, United States Environmental Protection Agency, November 2002.

Site Specific References

12. Cardno (2023a), *PFAS Ongoing Monitoring Plan Sampling and Analysis Quality Plan (SAQP) RAAF Base East Sale,* Rev 15, November 2023.

13. Cardno (2023b), *Ongoing Monitoring Report (2021 – 2022), RAAF Base East Sale, DRAFT*, 30 January 2024.

14. Senversa (2017), *Detailed Site Investigation – RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations,* 7 June 2017 (Final – reference M11818_119_rpt_rev4_DSI).

15. Senversa (2018a), *Human Health and Ecological Risk Assessment – RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations*, 28 May 2018 (Final – reference M11818_334_rpt_rev2).

16. Senversa (2018b), *PFAS Management Area Plan – RAAF Base East Sale*, August 2018.

17. Senversa (2023), *RAAF Base East Sale PFAS Management Area Plan Ongoing Monitoring Plan, February 2023*.

APPENDIX A

FIGURES

Cardno

now

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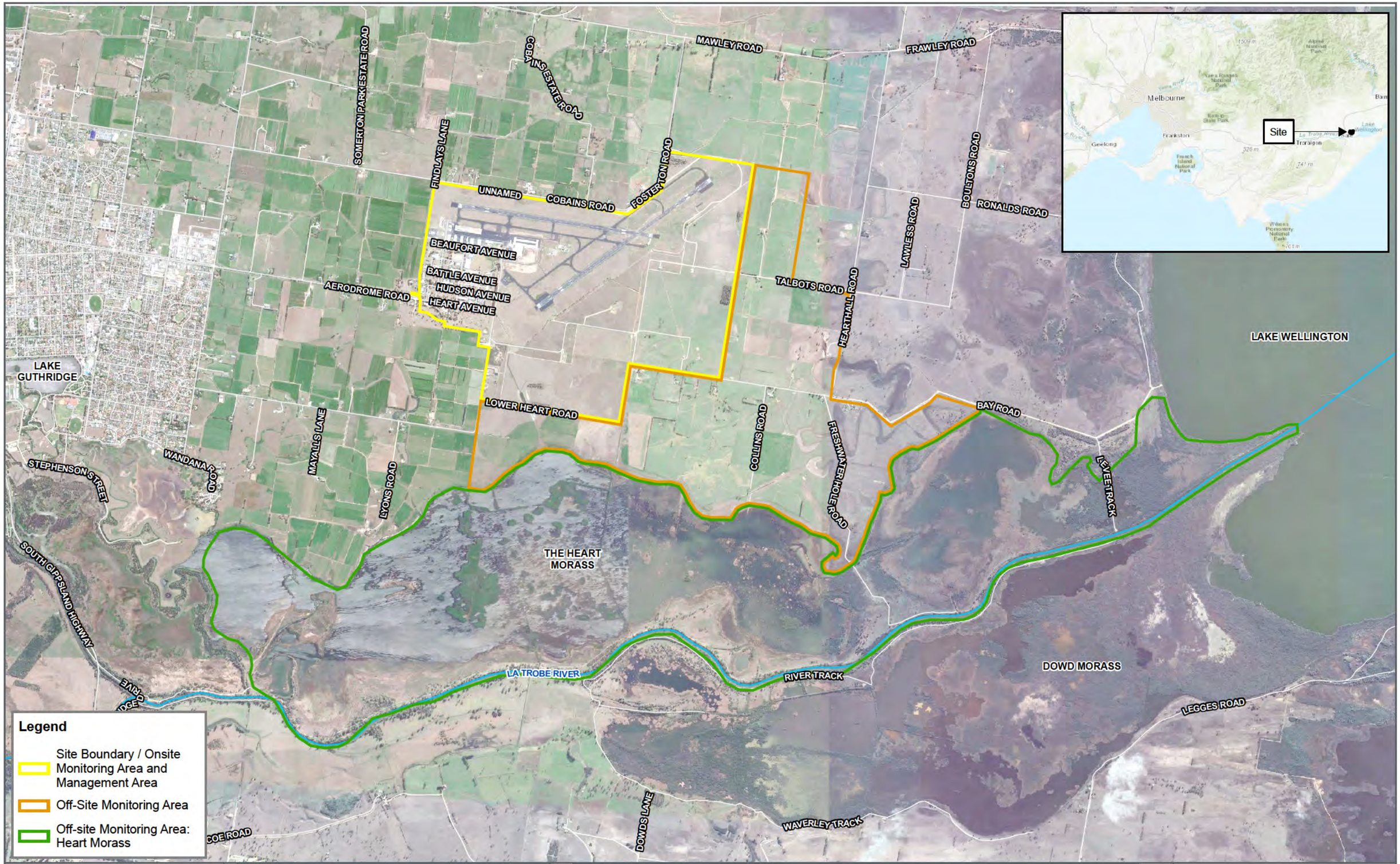


FIGURE 1

1:40,000 Scale at A3

Metres

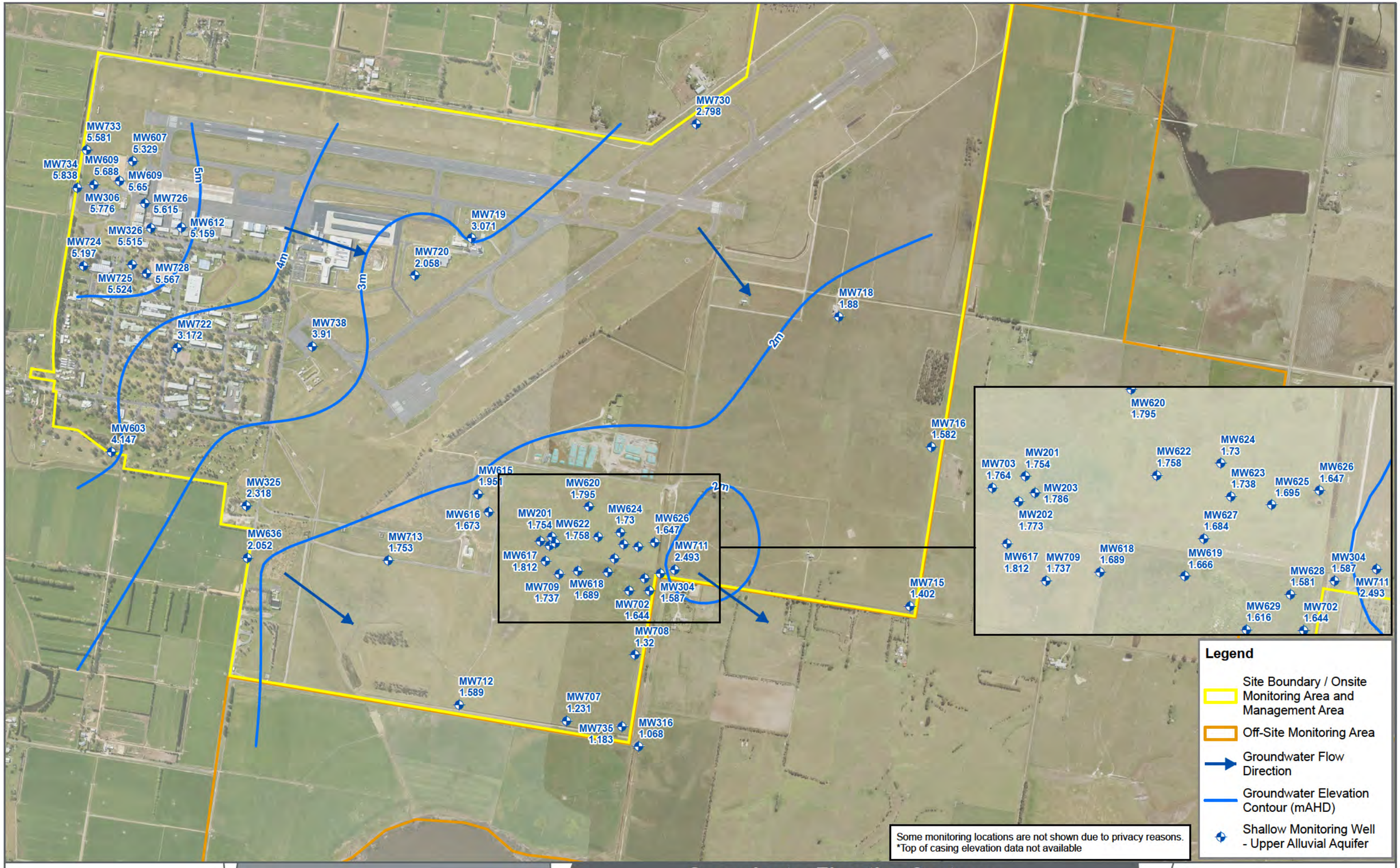
0 1,000 2,000

Site Locality Plan

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-27 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-005-SiteLocalityPlan_ES.mxd 10
Aerial Imagery Supplied by Google Earth (November, 2018)


MW733 5.581
MW607 5.329
MW734 5.838
MW609 5.688
MW609 5.65
MW306 5.776
MW726 5.615
MW326 5.515
MW612 5.159
MW724 5.197
MW728 5.567
MW725 5.524
MW722 3.172
MW738 3.91
MW603 4.147
MW325 2.318
MW636 2.052
MW713 1.753
MW615 1.951
MW616 1.673
MW730 2.798
MW719 3.071
MW720 2.058
MW718 1.88
MW716 1.582
MW715 1.402
MW708 1.32
MW712 1.589
MW707 1.231
MW735 1.183
MW316 1.068
MW620 1.795
MW201 1.754
MW622 1.758
MW624 1.73
MW626 1.647
MW617 1.812
MW709 1.737
MW618 1.689
MW304 1.587
MW711 2.493
MW702 1.644
MW703 1.764
MW203 1.786
MW202 1.773
MW627 1.684
MW619 1.666
MW623 1.738
MW625 1.695
MW628 1.581
MW629 1.616
5m
4m
3m
2m
Some monitoring locations are not shown due to privacy reasons.
*Top of casing elevation data not available
Legend
Site Boundary / Onsite Monitoring Area and Management Area
Off-Site Monitoring Area
Groundwater Flow Direction
Groundwater Elevation Contour (mAHD)
Shallow Monitoring Well - Upper Alluvial Aquifer
FIGURE 2
1:14,000 Scale at A3
Metres
0
500
1,000
Groundwater Elevation Contours – Shallow Aquifer (November, 2023)
ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE
N
Cardno now Stantec
Map Produced by Cardno now Stantec
Date: 2024-01-18 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0397-Shallow_GWContours_E13_ES.mxd 01
Aerial Imagery Supplied by Metromap (September, 2023)

MW010
5.42

4.5m

3.5m

2.5m

1.5m

MW323
1.754

MW324
1.757

MW704
1.829

MW310
1.599

MW739
1.888

MW740
1.31

MW741
0.656

MW701
1.177

MW318
1.178

MW008
1.658

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Groundwater Flow Direction
- Groundwater Elevation Contour (mAHD)
- Intermediate Monitoring Well - Lower Alluvial Aquifer

Some monitoring locations are not shown due to privacy reasons.
*Top of casing elevation data not available

FIGURE 3

1:14,000 Scale at A3

Metres

0 500 1,000

Groundwater Elevation Contours – Intermediate Aquifer (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-01-18 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0398-Int_GWContours_E13_ES.mxd 01
Aerial Imagery Supplied by Metromap (September, 2023)

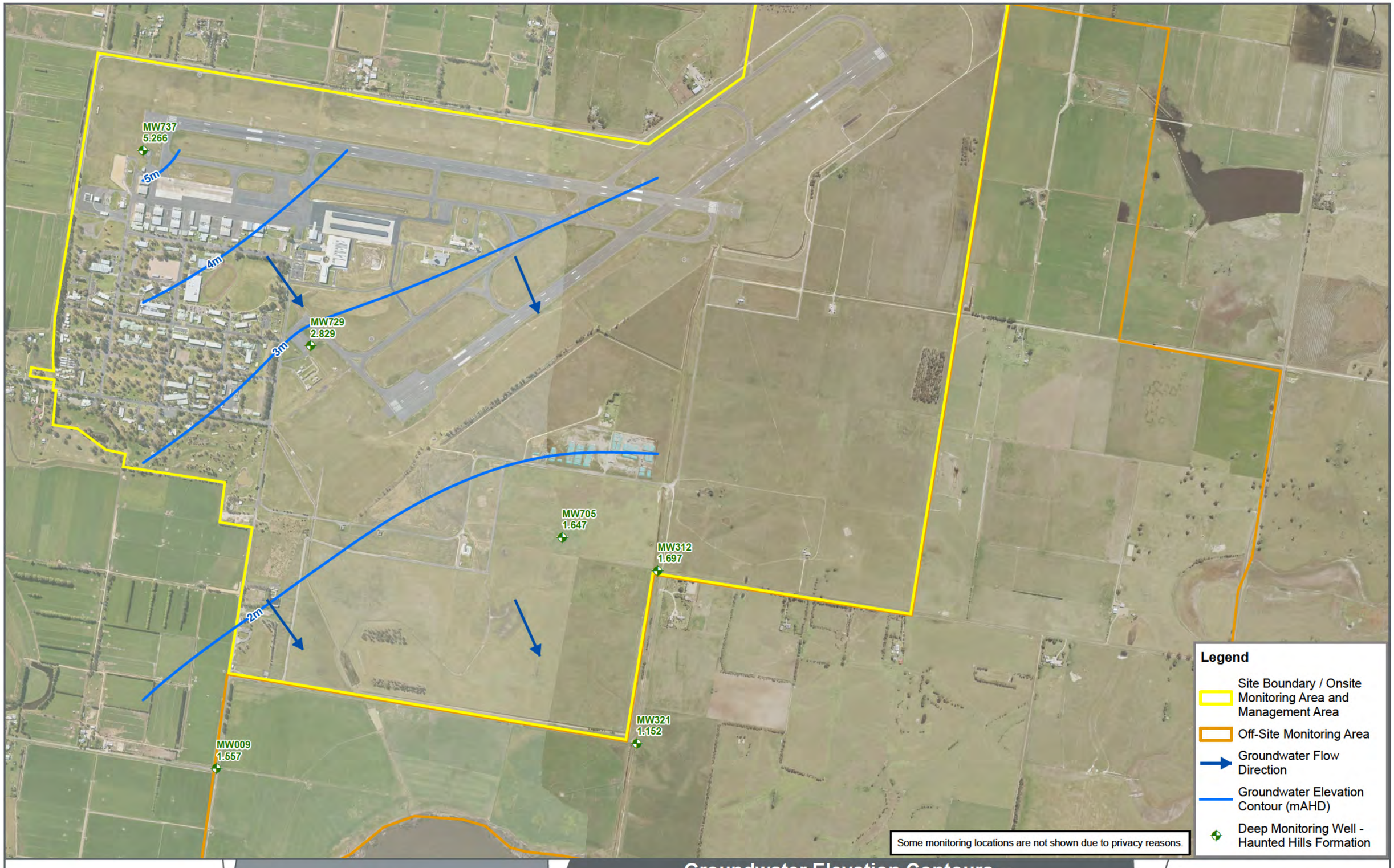


FIGURE 4

1:14,000 Scale at A3

Metres

0 500 1,000

Groundwater Elevation Contours – Deep Aquifer (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-01-18 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0399-Deep_GWContours_E13_ES.mxd 01
Aerial Imagery Supplied by Metromap (September, 2023)

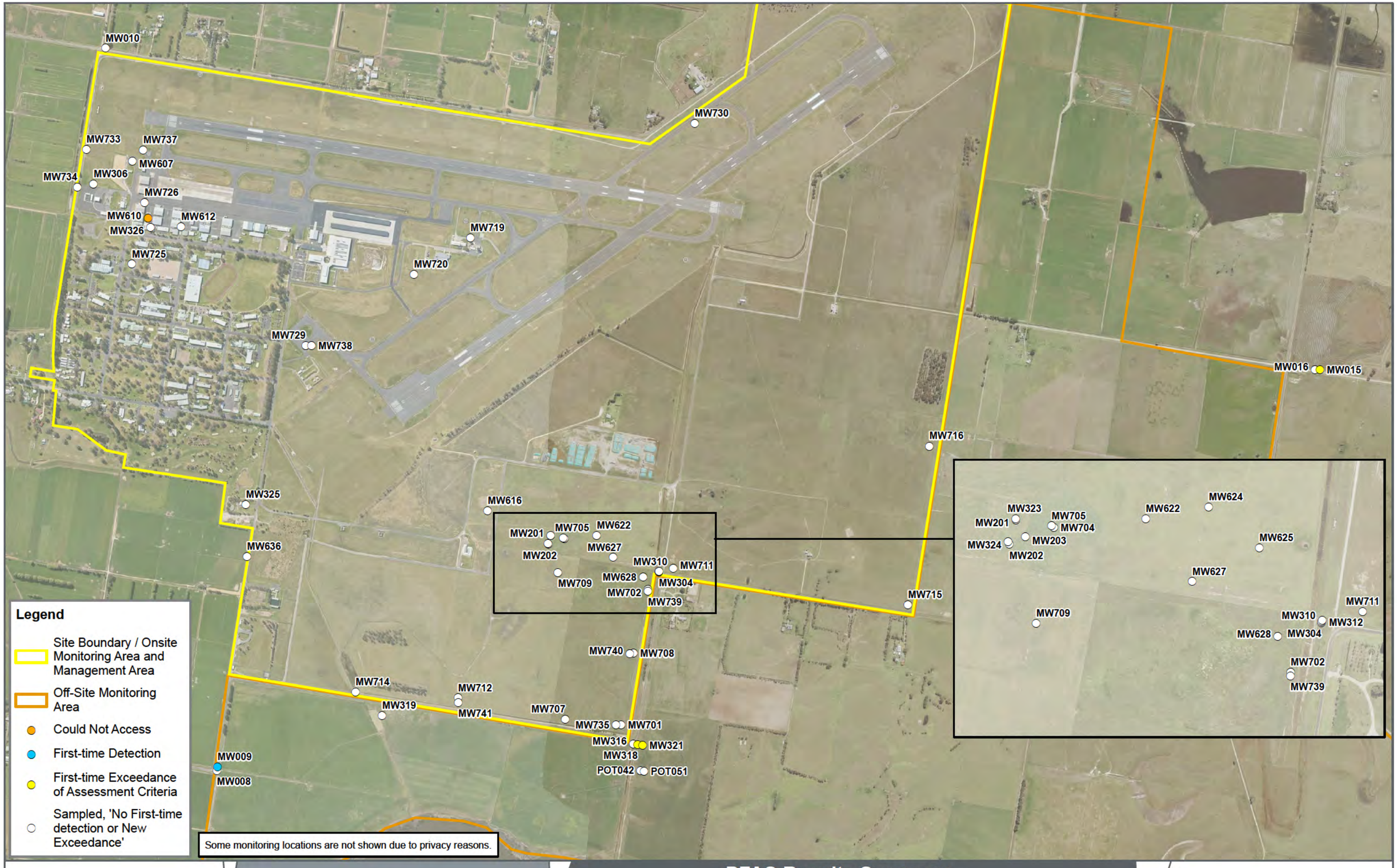


FIGURE 5

1:14,000 Scale at A3

Metres

0 500 1,000

PFAS Results Summary – Groundwater (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-01-18 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0400-GW_PFAS_Summary_E13_ES.mxd 01
Aerial Imagery Supplied by Metromap (September, 2023)

SW049
SW201
SW231
SW203
SW206
SW208
SW209
SW233
SW353
SW216
SW239
SW238
SW222
SW217
SW256
SW223
SW366
SW227
SW226
SW257
SW242
SW258
SW230
SW252
SW246
SW251
SW351
SW088
SW077
SW001
SW035
SW041
SW034
SW002
SW052
SW004
SW019
SW030
SW092
SW089
SW093
SW016
SW011
SW277
SW015
SW014
SW012
SW080
SW082

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Off-site Monitoring Area: Heart Morass
- Could Not Access
- Dry
- Sampled, 'No New Detection Or Exceedance'

Some monitoring locations are not shown due to privacy reasons.

FIGURE 6

1:35,000 Scale at A3

Metres

0 1,000 2,000

PFAS Results Summary – Surface Water (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-01-31 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0401-SW_PFAS_Summary_E13_ES.mxd 02
Aerial Imagery Supplied by Bing Satelite Imagery

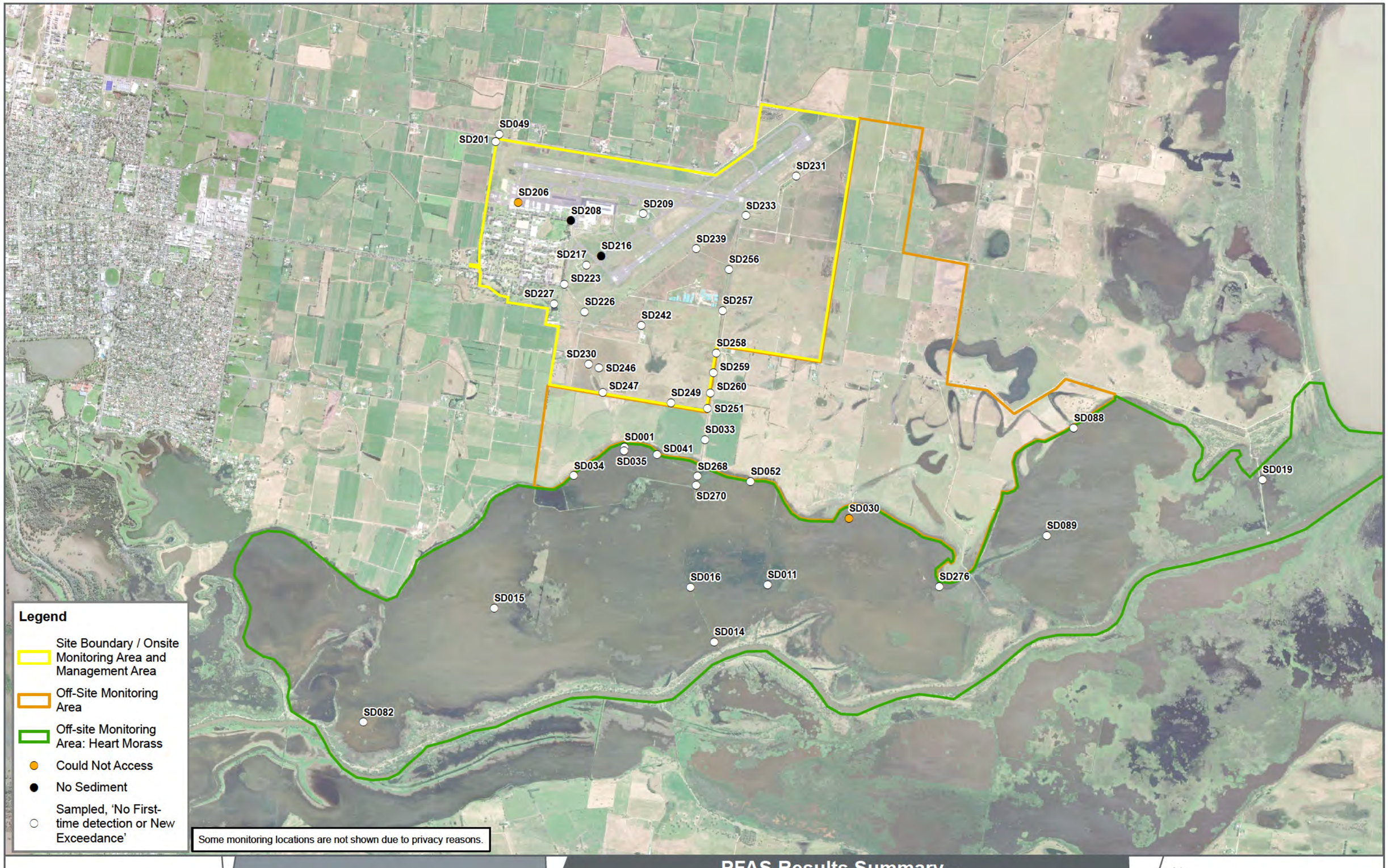


FIGURE 7

1:35,000 Scale at A3

Metres

0 1,000 2,000

PFAS Results Summary – Sediment (November, 2023)

ANNUAL SAMPLING EVENT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2024-01-31 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0402-SED_PFAS_Summary_E13_ES.mxd 02
Aerial Imagery Supplied by Bing Satelite Imagery

APPENDIX

B

DATA ASSESSMENT TABLES

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						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW008	Off-site	03 May 2016	OMW008	Normal	EM1604884	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		28 Nov 2019	0937_MW008_191128	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW008_20200319	Normal	EM2004708	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW008_20200618	Normal	EM2010387	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW008_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_MW008_210204	Normal	EM2101560	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 May 2021	0937_MW008_20210504	Normal	EM2108091	0.05	<0.01	**0.09**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_MW008_210806	Normal	EM2115569	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_MW008_211118	Normal	EM2123079	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW008_220222	Normal	EM2203192	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW008_220528	Normal	EM2210253	0.06	<0.01	**0.09**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW008_220829	Normal	EM2216985	0.06	<0.01	**0.09**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW008_221129	Normal	EM2223925	0.07	<0.01	**0.11**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW008_231120	Normal	EM2320919	0.19	<0.01	**0.25**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW009	Off-site	03 May 2016	OMW009	Normal	EM1604884	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		28 Nov 2019	0937_MW009_191128	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_MW009_20200319	Normal	EM2004708	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW009_200616	Normal	EM2010387	0.04	<0.01	**0.09**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW009_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_MW009_210204	Normal	EM2101560	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_MW009_20210429	Normal	EM2107805	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_MW009_210805	Normal	EM2115569	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_MW009_211118	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW009_220222	Normal	EM2203192	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW009_220528	Normal	EM2210253	0.03	<0.01	0.04	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW009_220829	Normal	EM2216985	0.06	<0.01	**0.08**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW009_221129	Normal	EM2223925	0.12	<0.01	**0.15**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW009_231120	Normal	EM2320919	0.59	0.01	**0.79**	0.06	0.03	0.20	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
MW010	Off-site	04 May 2016	OMW010	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		03 Dec 2019	0937_OMW10_191203	Normal	EM1920780	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW010_20200317	Normal	EM2004708	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW010_20200618	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW010_201112	Normal	EM2020052	0.04	<0.01	**0.08**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW010_210201	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_MW010_20210421	Normal	EM2107087	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_MW010_210806	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_MW010_211118	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW010_220222	Normal	EM2203192	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW010_220531	Normal	EM2210253	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW010_220829	Normal	EM2216985	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Dec 2022	0937_MW010_221201	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_MW010_231123	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW014	Off-site	22 Nov 2019	0937_MW014_191122	Normal	EM1920034	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_MW014_200623	Normal	EM2010689	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW014_210203	Normal	EM2101569	0.09	<0.01	**0.13**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW014_210804	Normal	EM2115486	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW014_220222	Normal	EM2203195	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW014_220829	Normal	EM2216998	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW014_231120	Normal	EM2320909	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW015	Off-site	09 Jun 2017	OMW015	Normal	EM1707603	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_OMW15_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW015_200618	Normal	EM2010387	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW015_210203	Normal	EM2101560	0.02	<0.01	0.05	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW015_210804	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW015_211117	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW015_220222	Normal	EM2203192	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_MW015_220529	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_MW015_220830	Normal	EM2216985	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW015_221129	Normal	EM2223925	0.01	<0.01	0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW015_231120	Normal	EM2320919	0.08	<0.01	**0.11**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW016	Off-site	09 Jun 2017	OMW016	Normal	EM1707603	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_OMW16_191203	Normal	EM1920780	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW016_200618	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW016_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW016_210804	Normal	EM2115569	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW016_211117	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW016_220222	Normal	EM2203192	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_MW016_220529	Normal	EM2210253	0.06	<0.01	**0.09**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_MW016_220830	Normal	EM2216985	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW016_221129	Normal	EM2223925	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW016_231120	Normal	EM2320919	0.06	<0.01	**0.10**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW201	On-site	12 May 2016	MW201-S	Normal	EM1605441	554	*270*	***8,874***	1,240	79.9	8,320	233	<0.02	642	368	2,320	216	0.07	<0.02	<0.05	<0.05
		28 Nov 2019	0937_MW201S_191128	Normal	EM1920529	456	*222*	***4,860***	932	1,150	4,400	293	<0.50	5.4	278	1,310	168	<0.50	<0.50	<0.50	<0.50
		02 Dec 2019	0937_MW201S_191202	Normal	EM1920780																
		18 Mar 2020	0937_MW201_20200318	Normal	EM2004711	676	*404*	***7,540***	1,410	1,540	6,860	261	<0.50	15.5	335	2,190	314	<0.50	<0.50	<0.50	<0.50
		17 Jun 2020	0937_MW201_20200617	Normal	EM2010514	659	*270*	***5,440***	953	1,060	4,780	177	<0.50	202	263	1,700	194	<0.50	<0.50	<0.50	<0.50
		11 Nov 2020	0937_MW201_201111	Normal	EM2020050	414	*207*	***3,730***	795	810	3,320	136	0.06	0.8	204	1,120	157	0.10	<0.04	<0.04	<0.04
		03 Feb 2021	0937_MW201_210203	Normal	EM2101575	413	*205*	***3,930***	749	741	3,520	134	<0.04	10.6	81.4	1,020	164	0.06	<0.04	<0.04	<0.04
		27 Apr 2021	0937_MW201_20210427	Normal	EM2107858	238	*178*	***3,810***	756	699	3,570	116	<0.04	218	219	1,130	150	0.12	<0.04	<0.04	<0.04
		03 Aug 2021	0937_MW201_210803	Normal	EM2115476	483	*244*	***5,420***	929	697	4,940	175	<0.04	10.8	276	1,460	181	0.08	<0.04	<0.04	<0.04
		16 Nov 2021	0937_MW201_211116	Normal	EM2123080	624	*254*	***4,970***	908	845	4,350	178	0.07	4.0	294	1,220	171	0.09	<0.04	<0.04	<0.04
		16 Feb 2022	0937_MW201_220216	Normal	EM2202703	839	*464*	***9,780***	2,250	2,050	8,940	336	0.3	420	742	3,280	376	0.36	<0.05	<0.05	<0.05
		19 May 2022	0937_MW201_220525	Normal	EM2210316	983	*514*	***10,200***	2,430	2,450	9,250	814	<0.50	529	681	3,240	388	<0.50	<0.50	<0.50	<0.50
		24 Aug 2022	0937_MW201_220824	Normal	EM2216476	711	*355*	***7,230***	1,530	1,310	6,520	274	<0.36	21.3	455	2,090	298	<0.36	<0.36	<0.36	<0.36
		23 Nov 2022	0937_MW201_221123	Normal	EM2223510	560	*313*	***5,250***	1,250	1,150	4,690	273	<0.35	22.9	352	1,740	244	<0.35	<0.35	<0.35	<0.35
		15 Nov 2023	0937_MW201_231115	Normal	EM2320952	735	*423*	***7,540***	1,650	1,770	6,810	486	<0.38	68.4	526	2,380	313	0.52	<0.38	<0.38	<0.38

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	2													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW202	On-site	01 Jun 2016	MW202S	Normal	EM1606406	497	***22.8***	***937***	77.3	69.6	440	37.3	<0.02	0.9	17.1	50.8	8.56	<0.02	<0.02	<0.02	<0.02
			QCA114	Field_D	EM1606406	498	***20.1***	***935***	75.3	69.7	437	36.2	<0.02	1	16.6	48.9	8.59	<0.02	<0.02	<0.02	<0.02
			QCB115	Interlab_D	503025	490	***21***	***880***	57		390		<0.01	7.9	13	55	10	0.03	<0.01	0.01	<0.01
		28 Nov 2019	0937_MW202S_191128	Normal	EM1920529	320	***15.1***	***585***	46.2	40.0	265	25.5	<0.05	5.6	10.6	49.8	7.80	<0.05	<0.05	<0.05	<0.05
		18 Mar 2020	0937_MW202_20200318	Normal	EM2004711	384	***19.0***	***745***	57.6	59.6	361	45.5	<0.05	2.1	12.9	67.6	9.86	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW202_20200617	Normal	EM2010514	307	***13.8***	***539***	33.4	39.5	232	23.4	<0.05	7.2	8.06	44.6	6.35	<0.05	<0.05	<0.05	<0.05
		11 Nov 2020	0937_MW202_201111	Normal	EM2020050	265	***11.0***	***473***	31.3	33.6	208	25.4	<0.04	0.8	7.08	35.7	6.02	<0.04	<0.04	<0.04	<0.04
		03 Feb 2021	0937_MW202_210203	Normal	EM2101575	342	***12.7***	***561***	32.0	32.0	219	24.0	<0.04	2.4	7.90	37.6	6.45	<0.04	<0.04	<0.04	<0.04
		28 Apr 2021	0937_ MW202 _20210428	Normal	EM2107858	305	***11.3***	***520***	29.9	33.0	215	31.0	<0.04	6.9	7.06	39.4	5.96	<0.04	<0.04	<0.04	<0.04
			0937_QC108_20210428	Field_D	EM2107858	279	***11.6***	***501***	29.4	34.7	222	32.4	<0.04	6.5	7.11	38.5	6.03	<0.04	<0.04	<0.04	<0.04
			QC208_20210428	Interlab_D	792537	420	***12***	***720***	43	53	300	25	<0.1	6.5	9.1	43	6.9	0.03	0.01	<0.01	<0.01
		03 Aug 2021	0937_MW202_210803	Normal	EM2115476	531	***15.8***	***801***	37.8	28.9	270	32.0	<0.04	2.7	9.33	47.1	7.40	<0.04	<0.04	<0.04	<0.04
			0937_QC120_210803	Field_D	EM2115476	441	***14.4***	***660***	32.6	34.2	219	25.2	<0.02	4.4	8.73	38.3	7.05	0.04	<0.02	<0.02	<0.02
			0937_QC220_210803	Interlab_D	815502	590	***15***	***900***	43	51	310	35	<0.01	6.7	10	47	6.8	0.03	<0.01	<0.01	<0.01
		16 Nov 2021	0937_MW202_211116	Normal	EM2123080	477	***20.8***	***814***	39.9	40.3	337	28.3	<0.04	3.1	10.6	48.4	8.88	0.04	<0.04	<0.04	<0.04
			0937_QC114_211116	Field_D	EM2123080	429	***20.4***	***787***	42.1	60.6	358	41.4	<0.04	3.2	12.2	58.8	8.85	0.04	<0.04	<0.04	<0.04
			0937_QC214_211116	Interlab_D	842318	540	***19***	***890***	47	61	350	42	<1	7.3	11	57	8.3	<1	<1	<1	<1
		16 Feb 2022	0937_MW202_220216	Normal	EM2202703	736	***46.2***	***1,580***	104	135	842	71.2	<0.05	13.4	29	158	22.8	0.14	<0.05	<0.05	<0.05
		26 May 2022	0937_MW202_220526	Normal	EM2210316	559	***39.4***	***1,190***	68.7	78.4	631	55.7	<0.50	14.2	20.2	104	18.4	<0.50	<0.50	<0.50	<0.50
		24 Aug 2022	0937_MW202_220824	Normal	EM2216476	447	***31.6***	***989***	55.6	66.1	542	45.4	<0.03	4.5	15.2	80.0	14.5	0.07	<0.03	<0.03	<0.03
		23 Nov 2022	0937_MW202_221123	Normal	EM2223510	506	***43.3***	***1,140***	61.0	82.1	635	61.4	<0.04	4.2	19.6	96.0	18.9	0.13	<0.04	<0.04	<0.04
		15 Nov 2023	0937_MW202_231115	Normal	EM2320952	451	***31.1***	***874***	53.0	62.2	423	45.6	<0.04	5.1	15.4	74.7	13.9	0.15	<0.04	<0.04	<0.04
MW302	Off-site	28 Jun 2016	P011-OEW001	Normal	EM1607522	<0.01	<0.01	<0.01													
			QCA128	Field_D	EM1607525	<0.01	<0.01	<0.01													
			QCB129	Interlab_D	506186	<0.02	<0.02	<0.04	<0.02		<0.02		<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		08 Jun 2017	P011_OWE001	Normal	EM1707596	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Dec 2019	0937_MW302_191204	Normal	EM1920785	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW302_200618	Normal	EM2010384	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW302_210204	Normal	EM2101564	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_MW302_210705	Normal	EM2115484	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW302_220222	Normal	EM2203199	0.03	<0.01	0.09	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_MW302_220830	Normal	EM2216992	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2023	0937_MW302_231117	Normal	EM2320914	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW304	Off-site	17 Oct 2015	35C	Normal		0.12	<0.02	**0.12**													
		03 May 2016	OMW001	Normal	EM1604884	0.05	<0.01	**0.23**	0.04	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
			QCA100	Field_D	EM1604884	0.04	<0.01	**0.22**	0.04	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
			QCB101_160503	Interlab_D	498992	<0.01	<0.01	0.03	0.03		0.03		<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		02 Dec 2019	0937_OMW001_191202	Normal	EM1920780	0.74	0.03	**1.13**	0.08	0.05	0.39	0.03	<0.02	<0.1	0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Mar 2020	0937_MW304_20200316	Normal	EM2004708	1.03	0.04	**1.50**	0.07	0.09	0.47	0.03	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW304_20200618	Normal	EM2010387	1.22	0.05	**1.72**	0.08	0.09	0.50	0.04	<0.02	<0.1	0.04	0.16	0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW304_201112	Normal	EM2020052	0.33	<0.01	**0.51**	0.03	0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW304_210203	Normal	EM2101560	0.29	<0.01	**0.47**	0.04	0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_MW304_20210428	Normal	EM2107805	0.42	0.01	**0.64**	0.23	0.02	0.22	<0.02	<0.02	<0.1	0.04	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW304_210804	Normal	EM2115569	0.22	<0.01	**0.38**	0.03	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW304_211117	Normal	EM2123079	0.14	<0.01	**0.25**	0.03	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW304_220222	Normal	EM2203192	0.15	<0.01	**0.25**	0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW304_220528	Normal	EM2210253	0.19	<0.01	**0.29**	0.03	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW304_220829	Normal	EM2216985	0.15	<0.01	**0.27**	0.02	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_MW304_221130	Normal	EM2223925	0.11	<0.01	**0.23**	<0.02	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_MW304_231121	Normal	EM2320919	1.08	0.02	**1.45**	0.05	0.05	0.37	0.02	<0.02	<0.1	0.11	0.15	0.05	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW306	On-site	18 Apr 2016	FF-MW1	Normal		190	*130*	*190*													
		17 Mar 2020	0937_MW306_20200317	Normal	EM2004711	726	*117*	*3,360*	277	329	2,630	94.8	<0.50	15.1	91.0	491	50.5	<0.50	<0.50	<0.50	<0.50
		16 Jun 2020	0937_MW306_200616	Normal	EM2010514	568	*83.3*	*2,380*	180	224	1,810	72.0	<0.50	39.8	64.2	387	34.3	<0.50	<0.50	<0.50	<0.50
		10 Nov 2020	0937_MW306_201011	Normal	EM2020050	724	*61.4*	*2,260*	146	177	1,540	60.0	<0.04	7.5	49.9	296	26.2	0.16	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW306_210128	Normal	EM2101229	346	*65.6*	*1,970*	162	233	1,620	55.2	<0.04	21.3	58.7	326	33.4	0.19	<0.04	<0.04	<0.04
		26 Apr 2021	0937_MW306_20210426	Normal	EM2107858	1,800	*53.4*	*3,230*	144	193	1,430	106	<0.04	43.6	57.4	294	24.5	0.28	<0.04	<0.04	<0.04
			0937_QC101_20210426	Field_D	EM2107858	1,970	*54.2*	*3,480*	150	212	1,510	110	<0.04	37.4	57.4	312	23.0	0.41	<0.04	<0.04	<0.04
			QC201_20210426	Interlab_D	792537	8.5	*18*	*11.3*	29	3.4	2.8	<0.5	<0.1	40	42	170	18	<0.1	<0.1	<0.1	<0.1
		13 Jul 2021	0937_MW306_210713	Normal	EM2113872-AB	1,260	*37.8*	*1,950*	77.3	96.2	693	41.2	<0.04	11.2	30.0	160	15.7	0.10	<0.04	<0.04	<0.04
			0937_QC101_210713	Field_D	EM2113872-AB	1,360	*34.9*	*2,190*	79.2	75.8	831	42.2	<0.04	9.6	35.3	174	14.6	0.15	<0.04	<0.04	<0.04
			0937_QC201_210713	Interlab_D	811260	190	5.3	*310*	12	14	120	5.8	<0.01	3.2	5.0	24	2.0	0.13	<0.1	<0.01	<0.01
		15 Nov 2021	0937_MW306_211115	Normal	EM2123080	2,210	*30.0*	*2,950*	62.8	67.6	738	56.8	<0.04	8.2	30.2	131	11.3	0.18	<0.04	<0.04	<0.04
		15 Feb 2022	0937_MW306_220215	Normal	EM2202703	1,830	*44.8*	*3,050*	121	168	1,220	65.6	<0.05	28.2	49.2	255	26.2	0.31	0.06	<0.05	<0.05
			0937_QC103_220215	Field_D	EM2202703	1,920	*65*	*3,340*	183	237	1,420	85.9	0.18	31.3	70.8	377	27.7	0.23	0.04	<0.02	<0.02
			0937_QC203_220215	Interlab_D	864735	2,000	*70*	*3,700*	150	160	1,700	60	0.02	40	70	270	27	0.34	0.1	<0.01	<0.01
		24 May 2022	0937_QC100_220524	Field_D	EM2210316	1,770	*61.8*	*1,950*	155	222	180	68.2	<0.40	30.7	75.4	319	25.9	<0.40	<0.40	<0.40	<0.40
			0937_QC200_220524	Interlab_D	893740	480	*66*	*1,250*	140	120	770	79	<0.1	38	66	130	26	0.35	0.10	<0.01	<0.01
		25 May 2022	0937_MW306_220525	Normal	EM2210316	1,560	*71.0*	*3,040*	149	202	1,480	79.3	<0.50	34.7	62.0	287	26.8	<0.50	<0.50	<0.50	<0.50
		23 Aug 2022	0937_MW306_220823	Normal	EM2216476	2,070	*34.9*	*2,930*	84.6	113	859	59.8	<0.43	11.2	33.4	153	16.0	<0.43	<0.43	<0.43	<0.43
			0937_QC102_220823	Field_D	EM2216476	1,800	*35.0*	*2,840*	102	155	1,040	72.1	<0.35	15.0	41.1	224	16.2	<0.35	<0.35	<0.35	<0.35
			0937_QC202_220823	Interlab_D	922647	860	*44*	*1,860*	110	120	1,000	51	0.14	27	42	190	18	0.33	0.06	0.08	0.08
		22 Nov 2022	0937_MW306_221122	Normal	EM2223510	1,750	*23.4*	*2,270*	59.2	64.7	517	31.2	<0.35	5.3	22.6	107	10.7	<0.35	<0.35	<0.35	<0.35
			0937_QC201_221122	Interlab_D	945182	1,900	*18*	*2,330*	44	44	430	21	<6	12	15	83	7.8	<6	<6	<6	<6
		16 Nov 2023	0937_MW306_231116	Normal	EM2320952	958	*29.0*	*1,570*	77.9	92.0	613	28.8	<3.76	9.5	30.6	134	15.3	0.26	<0.04	<0.04	<0.04
MW310	Off-site	17 Oct 2015	35B	Normal		0.09	<0.02	**0.09**													
		03 May 2016	OMW002	Normal	EM1604970	0.14	<0.01	**0.62**	0.05	0.04	0.48	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.05	<0.05
		02 Dec 2019	0937_OMW002_191202	Normal	EM1920780	0.23	0.01	**0.49**	0.02	0.03	0.26	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC208_191202	Interlab_D	692892	0.29	0.01	**0.56**	0.03	<0.01	0.27	0.01	<0.01	<0.05	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
		03 Dec 2019	0937_QC108_191202	Field_D	EM1920780	0.22	0.01	**0.48**	0.03	0.03	0.26	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Mar 2020	0937_MW310_20200316	Normal	EM2004708	0.29	0.01	**0.55**	0.02	0.04	0.26	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW310_20200618	Normal	EM2010387	0.30	0.02	**0.57**	0.04	0.05	0.27	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW310_201112	Normal	EM2020052	0.15	<0.02	**0.31**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW310_210203	Normal	EM2101560	0.25	0.01	**0.49**	0.02	0.03	0.24	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_MW310_20210428	Normal	EM2107805	0.39	0.01	**0.66**	0.05	0.03	0.27	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW310_210804	Normal	EM2115569	0.38	0.01	**0.68**	0.02	<0.02	0.30	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW310_211117	Normal	EM2123079	0.40	0.02	**0.70**	0.03	0.04	0.30	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW310_220222	Normal	EM2203192	0.42	0.02	**0.71**	0.04	0.03	0.29	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW310_220528	Normal	EM2210253	0.35	0.01	**0.52**	0.05	0.03	0.17	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW310_220829	Normal	EM2216985	0.44	0.02	**0.73**	0.04	0.04	0.29	0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_MW310_221130	Normal	EM2223925	0.31	0.01	**0.63**	0.03	0.02	0.32	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_MW310_231121	Normal	EM2320919	1.21	0.03	**1.83**	<0.02	0.08	0.62	0.05	<0.02	<0.1	0.16	0.26	0.04	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW312	Off-site	17 Oct 2015	35A	Normal		<0.02	<0.02	<0.02													
		03 May 2016	OMW003	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		02 Dec 2019	0937_OMW003_191202	Normal	EM1920780	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Mar 2020	0937_MW312_20200316	Normal	EM2004708	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW312_20200618	Normal	EM2010387	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW312_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW312_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_MW312_20210428	Normal	EM2107805	0.14	<0.01	**0.19**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW312_210804	Normal	EM2115569	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW312_211117	Normal	EM2123079	0.08	<0.01	**0.10**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW312_220222	Normal	EM2203192	0.08	<0.01	**0.10**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW312_220528	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW312_220829	Normal	EM2216985	0.20	<0.01	**0.26**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_MW312_221130	Normal	EM2223925	0.17	<0.01	**0.25**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_MW312_231121	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW315	On-site	18 Apr 2016	FF-MW3	Normal		45	**1.2**	***45***													
		17 Mar 2020	0937_MW315_20200317	Normal	EM2004711	157	***14.6***	***502***	45.6	51.0	345	25.0	<0.05	3.1	14.2	81.0	7.60	0.06	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW315_200616	Normal	EM2010514	87.3	***21.5***	***583***	81.1	87.4	496	24.5	<0.05	12.8	24.6	144	13.2	<0.05	<0.05	<0.05	<0.05
		10 Nov 2020	0936_MW315_201110	Normal	EM2020050	77.9	**8.17**	***284***	40.8	35.2	206	15.0	<0.04	1.4	10.5	53.5	5.11	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW315_210128	Normal	EM2101229	121	***10.4***	***391***	51.2	40.2	270	20.2	<0.04	4.2	14.3	69.2	7.40	0.04	<0.04	<0.04	<0.04
		16 Nov 2023	0937_MW315_231116	Normal	EM2320952	52.5	**5.94**	***218***	32.5	36.3	165	7.58	<0.04	3.6	10.8	50.8	4.85	<0.04	<0.04	<0.04	<0.04
MW316	Off-site	17 Oct 2015	UDA	Normal		<0.02	<0.02	<0.02													
		03 May 2016	OMW004	Normal	EM1604884	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		29 Nov 2019	0937_OMW004_191129	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW316_20200319	Normal	EM2004708	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Jun 2020	0937_MW316_20200619	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW316_201112	Normal	EM2020052	<0.01	<0.01	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_MW316_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_MW316_20210429	Normal	EM2107805	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_MW316_210805	Normal	EM2115569	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_MW316_211118	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_MW316_220224	Normal	EM2203192	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW316_220528	Normal	EM2210253	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW316_220829	Normal	EM2216985	0.89	<0.01	**0.93**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_MW316_221130	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW316_231120	Normal	EM2320919	0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW318	Off-site	17 Oct 2015	UIA	Normal		<0.02	<0.02	<0.02													
		03 May 2016	OMW005	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		29 Nov 2019	0937_OMW005_191129	Normal	EM1920529	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW318_20200319	Normal	EM2004708	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Jun 2020	0937_MW318_20200619	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW318_201112	Normal	EM2020052	<0.01	<0.01	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_MW318_210203	Normal	EM2101560	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_MW318_20210427	Normal	EM2107805	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_MW318_210805	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW318_211117	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW318_220222	Normal	EM2203192	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW318_220528	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW318_220829	Normal	EM2216985	0.04	<0.01	0.05	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_MW318_221130	Normal	EM2223925	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW318_231120	Normal	EM2320919	0.11	<0.01	**0.14**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW319	Off-site	24 Oct 2017	P003_OEW005	Normal	EM1714625	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW319_191128	Normal	EM1920529-AC	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW319_20200319	Normal	EM2004707	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW319_20200618	Normal	EM2010382	0.01	<0.01	0.04	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW319_201112	Normal	EM2020041	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_MW319_210204	Normal	EM2101558	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_MW319_20210429	Normal	EM2107856	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC112_20210429	Field_D	EM2107858	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_MW319_210806	Normal	EM2115478	0.04	<0.01	**0.11**	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW319_211118	Normal	EM2123001	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_MW319_220223	Normal	EM2203197	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_MW319_220529	Normal	EM2210255	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_MW319_220901	Normal	EM2216994-AD	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC119_220901	Field_D	EM2216994-AD	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC219_220831	Interlab_D	922406	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		21 Nov 2023	0937_MW319_231121	Normal	EM2320912	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW321	Off-site	17 Oct 2015	USA	Normal		<0.02	<0.02	<0.02													
		04 May 2016	OMW006	Normal	EM1604970	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		29 Nov 2019	0937_OMW006_191129	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW321_20200319	Normal	EM2004708	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Jun 2020	0937_MW321_20200619	Normal	EM2010387	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW321_201112	Normal	EM2020052	0.03	<0.01	0.03	0.05	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_MW321_210203	Normal	EM2101560	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_MW321_20210427	Normal	EM2107805	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_MW321_210805	Normal	EM2115569	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW321_211117	Normal	EM2123079	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_MW321_220222	Normal	EM2203192	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_MW321_220528	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW321_220829	Normal	EM2216985	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_MW321_221130	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW321_231120	Normal	EM2320919	0.11	<0.01	0.15	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
MW323	On-site	01 Jun 2016	MW201D	Normal	EM1606406	13.6	**0.8**	***49.3***	11.6	8.32	35.7	1.43	<0.02	<0.1	0.62	3.52	0.52	<0.02	<0.02	<0.02	<0.02
		27 Nov 2019	0937_MW201D_191127	Normal	EM1920529	20.4	**1.79**	***54.9***	9.08	7.21	34.5	3.39	<0.02	1.6	1.84	10.8	1.29	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW323_20200318	Normal	EM2004711	59.3	**5.11**	***145***	18.9	19.2	85.8	6.18	<0.05	1.2	4.76	23.5	3.54	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW323_20200617	Normal	EM2010514	22.1	**1.71**	***48.7***	7.72	6.35	26.6	2.23	<0.02	1.6	1.71	9.30	1.12	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW323_201111	Normal	EM2020050	19.2	**1.20**	***37.7***	5.42	4.23	18.5	1.59	<0.04	<0.2	1.12	5.18	0.75	<0.04	<0.04	<0.04	<0.04
		03 Feb 2021	0937_MW323_210203	Normal	EM2101575	13.6	**1.14**	***30.5***	5.10	2.68	16.9	1.29	<0.04	0.4	1.21	5.23	0.81	<0.04	<0.04	<0.04	<0.04
		27 Apr 2021	0937_MW323_20210427	Normal	EM2107858	14.5	**1.16**	***32.5***	4.86	3.61	18.0	1.42	<0.02	1.6	1.28	6.26	0.84	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW323_210803	Normal	EM2115476	13.3	**0.95**	***28.5***	3.80	2.66	15.2	1.17	<0.04	0.4	1.09	5.09	0.63	<0.04	<0.04	<0.04	<0.04
			0937_QC122_210803	Field_D	EM2115476	13.4	**0.98**	***27.7***	3.53	3.68	14.3	1.58	<0.02	1.1	1.08	4.38	0.58	<0.02	<0.02	<0.02	<0.02
			0937_QC222_210803	Interlab_D	815502	16	**1.7**	***37***	5.0	4.4	21	1.4	<0.01	1.3	1.4	6.1	0.85	<0.01	<0.01	<0.01	<0.01
		16 Nov 2021	0937_MW323_211116	Normal	EM2123080	40.6	**3.49**	***91.5***	11.2	10.0	50.9	3.66	<0.04	1.4	3.36	14.5	2.08	<0.04	<0.04	<0.04	<0.04
		16 Feb 2022	0937_MW323_220216	Normal	EM2202703	61.4	**5.49**	***136***	20.4	19.3	75.1	8.78	0.21	3.9	6.15	32.3	3.77	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_MW323_220525	Normal	EM2210316	51.4	**5.66**	***137***	21.5	18.2	85.4	6.09	<0.05	4.7	6.10	28.2	3.84	<0.05	<0.05	<0.05	<0.05
		24 Aug 2022	0937_MW323_220824	Normal	EM2216476	47.8	**4.97**	***136***	21.0	17.2	88.2	5.71	<0.04	1.8	4.86	22.7	3.62	<0.04	<0.04	<0.04	<0.04
		23 Nov 2022	0937_MW323_221123	Normal	EM2223510	42.0	**4.99**	***113***	18.7	16.5	71.3	6.19	<0.03	1.4	4.89	24.1	3.41	<0.03	<0.03	<0.03	<0.03
		15 Nov 2023	0937_MW323_231115	Normal	EM2320952	51.3	**4.49**	***115***	15.1	15.8	63.9	6.59	<0.04	2.1	4.16	19.7	2.94	<0.04	<0.04	<0.04	<0.04

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW324	On-site	01 Jun 2016	MW202D	Normal	EM1606406	1.45	0.03	***3.33***	0.86	0.59	1.88	0.14	<0.02	<0.1	0.04	0.19	0.02	<0.02	<0.02	<0.02	<0.02
		27 Nov 2019	0937_MW202D_191127	Normal	EM1920529																
		18 Mar 2020	0937_MW324_20200318	Normal	EM2004711	28.3	**1.76**	***61.4***	6.34	6.42	33.1	2.28	<0.05	0.3	1.53	7.56	1.04	<0.05	<0.05	<0.05	<0.05
		19 Jun 2020	0937_MW324_20200617	Normal	EM2010514	22.3	**1.42**	***49.3***	5.69	5.30	27.0	1.88	<0.02	0.9	1.47	7.54	0.88	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW324_201111	Normal	EM2020050	14.1	**1.18**	***37.0***	6.02	5.32	22.9	1.44	<0.04	<0.2	1.22	5.70	0.78	<0.04	<0.04	<0.04	<0.04
		03 Feb 2021	0937_MW324_210203	Normal	EM2101575	15.9	**1.34**	***41.8***	6.65	4.18	25.9	1.56	<0.04	0.4	1.49	6.84	1.04	<0.04	<0.04	<0.04	<0.04
		27 Apr 2021	0937_ MW324_20210427	Normal	EM2107858	9.42	**0.88**	***25.9***	4.61	3.43	16.5	1.02	<0.02	1.3	1.09	4.68	0.70	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW324_210803	Normal	EM2115476	22.6	**2.48**	***69.0***	12.5	8.99	46.4	2.98	<0.04	1.0	2.73	13.0	1.86	<0.04	<0.04	<0.04	<0.04
		16 Nov 2021	0937_MW324_211116	Normal	EM2123080	47.4	**5.63**	***149***	21.0	20.5	102	5.21	<0.04	1.8	5.70	22.4	3.68	<0.04	<0.04	<0.04	<0.04
		16 Feb 2022	0937_MW324_220216	Normal	EM2202703	76.8	**9.12**	***230***	35.3	44.3	153	8.12	<0.02	5.5	10.4	46.2	6.36	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_MW324_220526	Normal	EM2210316	94.7	**7.90**	***233***	24.7	29.7	138	10.4	<0.05	4.6	7.00	32.6	4.88	<0.05	<0.05	<0.05	<0.05
		24 Aug 2022	0937_MW324_220824	Normal	EM2216476	77.6	**6.14**	***195***	23.4	23.4	117	7.66	<0.03	2.0	5.50	25.2	4.41	<0.03	<0.03	<0.03	<0.03
			0937_QC108_220824	Field_D	EM2216476	84.2	**5.60**	***212***	22.8	32.4	128	10.7	<0.04	2.5	6.33	30.1	3.68	<0.04	<0.04	<0.04	<0.04
			0937_QC208_220824	Interlab_D	922647	62	**7.3**	***212***	34	43	150	7.3	<0.01	6.1	8.4	25	5.4	0.01	<0.01	<0.01	<0.01
		23 Nov 2022	0937_MW324_221123	Normal	EM2223510	73.2	**7.04**	***203***	26.1	29.1	130	10.0	<0.04	2.6	6.61	32.4	5.18	<0.04	<0.04	<0.04	<0.04
		15 Nov 2023	0937_MW324_231115	Normal	EM2320952	41.9	**3.98**	***106***	12.0	15.9	64.4	5.66	<0.02	1.6	3.31	15.0	2.58	<0.02	<0.02	<0.02	<0.02
MW325	On-site	18 Oct 2016	MW706	Normal	EM1612450	0.14	**3.12**	***28.84***	18	9.91	28.7	0.32	<0.02	3.5	4.75	34.9	6.1	<0.02	<0.02	<0.02	<0.02
		28 Oct 2016	MW706A	Normal	EM1612912	0.1	0.07	**1.83**	1.71	0.85	1.73	<0.05	<0.05	<0.1	0.76	1.94	0.29	<0.05	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW325_200616	Normal	EM2010514	3.50	**3.17**	***9.50***	1.03	0.87	6.00	0.36	<0.02	4.8	14.2	8.49	4.77	0.42	0.07	<0.02	<0.02
		14 Jul 2021	0937_MW325_210714	Normal	EM2113872-AB	2.90	**1.55**	***5.14***	0.40	0.26	2.24	0.16	<0.02	2.6	7.77	4.13	2.80	0.32	0.04	<0.02	<0.02
		15 Nov 2021	0937_MW325_211115	Normal	EM2123080	5.03	**1.44**	***6.52***	0.19	0.17	1.49	0.15	<0.04	1.2	5.44	1.44	2.10	0.80	0.04	<0.02	<0.02
		18 Feb 2022	0937_MW325_220218	Normal	EM2202703	6.52	**2.13**	***11.2***	2.91	1.65	4.63	0.31	<0.02	4.6	13.7	12.7	3.64	0.92	0.05	<0.02	<0.02
		25 May 2022	0937_MW325_220525	Normal	EM2210316	4.41	**1.65**	***9.14***	3.57	2.18	4.73	0.21	<0.02	4.9	12.0	15.1	3.61	0.58	0.03	<0.02	<0.02
		26 Aug 2022	0937_MW325_220826	Normal	EM2216476	3.20	**1.05**	***4.80***	0.38	0.26	1.60	0.12	<0.02	2.8	8.33	3.72	1.95	0.44	0.03	<0.02	<0.02
		24 Nov 2022	0937_MW325_221124	Normal	EM2223510	4.75	**1.55**	***8.84***	0.84	0.62	4.09	0.24	<0.02	4.2	11.1	5.69	2.73	0.57	0.02	<0.02	<0.02
		16 Nov 2023	0937_MW325_231116	Normal	EM2320952	2.87	**1.58**	***6.81***	1.17	0.98	3.94	0.25	<0.02	2.5	9.16	7.16	3.09	0.37	<0.02	<0.02	<0.02
MW326	On-site	28 Oct 2016	MW727A	Normal	EM1612912	0.71	0.1	***6.35***	0.56	0.54	5.64	0.13	<0.02	<0.1	0.18	0.5	0.06	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW727A_191120	Normal	EM1920039	1.42	0.20	***6.10***	0.36	0.54	4.68	0.20	<0.02	<0.1	0.18	0.94	0.09	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW326_20200317	Normal	EM2004711	2.40	0.40	***12.2***	0.62	1.71	9.77	0.37	<0.02	0.2	0.38	1.82	0.23	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW326_20200616	Normal	EM2010514	5.89	**0.70**	***19.6***	1.12	1.79	13.7	1.06	<0.02	0.2	0.53	2.84	0.30	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW326_201110	Normal	EM2020050	17.1	**0.82**	***38.8***	1.99	2.71	21.7	0.98	<0.04	0.2	0.92	4.65	0.57	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW326_210128	Normal	EM2101229	6.90	0.51	***20.3***	1.17	1.82	13.4	0.64	<0.02	0.4	0.60	2.89	0.38	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_ MW326_20210426	Normal	EM2107858	9.79	0.47	***20.1***	0.89	1.05	10.3	0.64	<0.02	0.3	0.46	2.03	0.28	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW326_210713	Normal	EM2113872-AB	12.2	0.53	***22.0***	0.93	0.87	9.85	0.74	<0.02	0.4	0.70	2.62	0.32	<0.02	<0.02	<0.02	<0.02
			0937_QC100_210713	Field_D	EM2113872-AB	16.5	0.51	***27.4***	0.92	1.14	10.9	0.66	<0.02	0.4	0.59	2.04	0.31	<0.02	<0.02	<0.02	<0.02
			0937_QC200_210713	Interlab_D	811260	8.8	0.49	***23.8***	1.1	2.0	15	0.64	<0.01	0.54	0.91	2.7	0.32	<0.01	<0.01	<0.01	<0.01
		15 Nov 2021	0937_MW326_211115	Normal	EM2123080	9.90	**0.59**	***22.5***	1.01	1.18	12.6	0.49	<0.02	0.2	0.81	1.71	0.48	<0.02	<0.02	<0.02	<0.02
			0937_QC109_211115	Field_D	EM2123080	10.3	**0.64**	***22.9***	1.00	2.49	12.6	1.14	<0.02	0.5	1.06	2.76	0.38	0.02	<0.02	<0.02	<0.02
			0937_QC209_211115	Interlab_D	842318	15	**0.82**	***31***	1.4	1.8	16	0.63	<0.01	0.61	1.1	3.3	0.43	0.02	<0.01	<0.01	<0.01
		15 Feb 2022	0937_MW326_220215	Normal	EM2202703	13.1	**1.04**	***34.1***	2.6	2.64	21	1.08	<0.02	0.8	1.95	6.43	0.72	<0.02	<0.02	<0.02	<0.02
			0937_QC105_220215	Field_D	EM2202703	12.2	**1.01**	***34.2***	2.37	2.9	22	1.03	<0.02	0.7	1.77	6.15	0.71	0.02	<0.02	<0.02	<0.02
			0937_QC205_220215	Interlab_D	864735	15	**1**	***49***	2.4	4.1	34	1.2	<0.01	0.9	1.2	5.5	0.66	0.03	<0.01	<0.01	<0.01
		25 May 2022	0937_MW326_220525	Normal	EM2210316	13.4	**0.79**	***30.9***	1.68	2.70	17.5	1.22	<0.02	0.6	1.45	4.35	0.49	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW326_220823	Normal	EM2216476	8.98	0.44	***18.4***	0.69	0.80	9.37	0.59	<0.02	0.3	0.63	1.41	0.22	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_MW326_221124	Normal	EM2223510	9.21	0.40	***18.1***	0.78	1.10	8.89	0.48	<0.02	0.2	0.49	1.65	0.23	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW326_231116	Normal	EM2320952	8.05	0.48	***16.5***	0.70	1.02	8.43	0.48	<0.02	0.4	0.81	1.85	0.30	0.04	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW603	On-site	11 May 2016	MW603	Normal	EM1605366	0.07	0.02	**0.61**	0.06	0.05	0.54	<0.02	<0.02	<0.1	<0.02	0.15	<0.02	<0.02	<0.02	<0.05	<0.05
			QCA106	Field_D	EM1605366	0.11	0.02	**0.63**	0.06	0.07	0.52	<0.02	<0.02	<0.1	<0.02	0.15	<0.02	<0.02	<0.02	<0.05	<0.05
			QCB107	Interlab_D	500316	<0.01	0.02	<0.01													
		25 Nov 2019	0937_MW603_191125	Normal	EM1920529	1.02	0.03	**1.64**	0.07	0.07	0.62	0.04	<0.02	<0.1	<0.02	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW603_200616	Normal	EM2010514	0.16	0.03	**0.47**	0.03	0.03	0.31	<0.02	<0.02	<0.1	<0.02	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW603_210203	Normal	EM2101575	0.12	0.02	**0.32**	0.04	0.02	0.20	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW603_210802	Normal	EM2115476	0.08	0.02	**1.21**	0.23	0.14	1.13	<0.02	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW603_220216	Normal	EM2202703	0.44	0.03	**1.5**	0.22	0.17	1.06	0.05	<0.02	<0.1	0.04	0.33	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW603_220823	Normal	EM2216476	0.09	0.02	**0.55**	0.08	0.06	0.46	<0.02	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW603_231116	Normal	EM2320952	1.46	0.05	***3.52***	0.28	0.24	2.06	0.11	<0.02	<0.1	0.05	0.39	0.03	<0.02	<0.02	<0.02	<0.02
			0937_MW603_231116_02	Normal	EM2320952	0.68	0.03	***2.12***	0.27	0.23	1.44	0.06	<0.02	<0.1	0.03	0.26	<0.02	<0.02	<0.02	<0.02	<0.02
MW607	On-site	19 Aug 2015	MW607	Normal	EM1513576	23.8	**1.04**	***23.8***													
		01 Jun 2016	MW607	Normal	EM1606406	27.4	**0.61**	***46.2***	2.16	2.36	18.8	1.61	<0.02	<0.1	0.26	1.79	0.27	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW607_191120	Normal	EM1920034	24.1	**1.37**	***43.2***	2.30	3.18	19.1	2.37	<0.02	0.3	0.91	4.48	0.53	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW607_20200317	Normal	EM2004711	35.5	**1.72**	***62.3***	2.78	4.02	26.8	2.70	<0.05	<0.2	1.27	6.16	0.80	<0.05	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW607_200616	Normal	EM2010514	25.3	**1.20**	***45.0***	1.89	3.10	19.7	2.17	<0.02	0.7	0.83	4.03	0.50	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW607_201110	Normal	EM2020050	24.8	**0.83**	***38.6***	1.59	1.87	13.8	1.31	<0.04	0.3	0.60	2.95	0.41	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW607_210128	Normal	EM2101229	16.2	**0.82**	***30.3***	1.44	1.94	14.1	1.51	<0.02	0.4	0.61	2.94	0.40	<0.02	<0.02	<0.02	<0.02
			0937_QC101_210128	Field_D	EM2101229	17.4	**0.86**	***31.7***	1.54	2.08	14.3	1.80	<0.02	0.6	0.67	3.17	0.43	<0.02	<0.02	<0.02	<0.02
			0937_QC201_210128	Interlab_D	770470	58	**1.2**	***84***	1.8	3.1	26	3.5	<0.01	0.57	1.3	4.3	0.46	<0.01	<0.01	<0.01	<0.01
		26 Apr 2021	0937_ MW607 _20210426	Normal	EM2107858	17.9	**0.81**	***30.7***	1.58	1.56	12.8	1.28	<0.02	0.6	0.57	3.33	0.39	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW607_210713	Normal	EM2113872-AB	11.4	**0.62**	***19.5***	1.10	0.98	8.06	1.18	<0.02	0.4	0.49	2.52	0.30	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_MW607_211115	Normal	EM2123080	11.7	**0.57**	***21.3***	1.16	1.06	9.62	0.78	<0.02	<0.2	0.44	1.32	0.36	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_MW607_220224	Normal	EM2203247	15.6	**0.87**	***32.3***	1.72	2.72	16.7	2.15	<0.02	0.5	0.67	3.3	0.44	<0.02	<0.02	<0.02	<0.02
			0937_QC123_229224	Field_D	EM2203247	15.7	**0.85**	***30.5***	1.69	2.72	14.8	2.1	<0.02	0.5	0.65	3.19	0.45	<0.02	<0.02	<0.02	<0.02
			0937_QC223_220224	Interlab_D	866689	21	**1.3**	***42***	2.6	2.9	21	1.5	<0.01	0.53	0.64	3.1	0.54	<0.01	<0.01	<0.01	<0.01
		25 May 2022	0937_MW607_220525	Normal	EM2210316	22.7	**0.98**	***38.8***	2.20	2.14	16.1	1.52	<0.05	0.6	0.78	3.86	0.44	<0.05	<0.05	<0.05	<0.05
		23 Aug 2022	0937_MW607_220823	Normal	EM2216476	15.6	**0.80**	***30.6***	2.41	2.70	15.0	1.35	<0.02	0.4	0.78	3.27	0.42	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_MW607_221124	Normal	EM2223510	15.2	**0.89**	***33.6***	3.63	4.59	18.4	1.75	<0.02	0.3	0.64	3.75	0.50	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW607_231115	Normal	EM2320952	1.50	0.03	***2.18***	0.10	0.06	0.68	0.09	<0.02	<0.1	0.06	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC108_231115	Field_D	EM2320952	1.47	0.03	***2.06***	0.14	0.08	0.59	0.07	<0.02	<0.1	0.04	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC208_231115	Interlab_D	1048259	1.6	0.03	***2.26***	0.10	0.09	0.66	0.08	<0.01	0.12	0.05	0.11	0.01	<0.01	<0.01	<0.01	<0.01
MW609	On-site	11 May 2016	MW609	Normal	EM1605365	0.2	0.13	***5.02***	1.45	1.18	4.82	0.07	<0.02	<0.1	0.27	1.34	0.16	<0.02	<0.02	<0.05	<0.05
		21 Nov 2019	0937_MW609_191120	Normal	EM1920039	0.35	0.14	***4.94***	1.29	1.12	4.59	0.08	<0.02	0.3	0.33	1.40	0.12	<0.02	<0.02	<0.02	<0.02
		15 Jun 2020	0937_MW609_20200615	Normal	EM2010514	0.33	0.15	***4.90***	1.47	1.26	4.57	0.07	<0.02	0.3	0.32	1.52	0.13	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW609_210203	Normal	EM2101575	0.38	0.08	***2.67***	0.74	0.55	2.29	0.07	<0.02	0.2	0.17	0.72	0.08	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW609_210713	Normal	EM2113872-AB	0.43	0.10	***3.53***	0.72	0.50	3.10	0.07	<0.02	0.3	0.20	0.89	0.08	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW609_220215	Normal	EM2202703	0.42	0.14	***4.06***	1.2	0.94	3.64	0.08	<0.02	0.2	0.3	1.42	0.12	<0.02	<0.02	<0.02	<0.02
			0937_QC202_220215	Interlab_D	864735	0.31	0.16	***4.61***	0.97	0.94	4.3	0.07	<0.01	0.36	0.3	1	0.12	<0.01	<0.01	<0.01	<0.01
		18 Feb 2022	0937_QC102_220215	Field_D	EM2202703	0.37	0.11	***3.75***	1.03	0.81	3.38	0.07	<0.02	0.2	0.23	1.26	0.1	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW609_220823	Normal	EM2216476	0.18	0.06	**1.98**	0.65	0.43	1.80	0.02	<0.02	0.2	0.18	0.59	0.06	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW609_231115	Normal	EM2320952	0.20	0.06	***2.17***	0.49	0.47	1.97	0.05	<0.02	0.1	0.13	0.55	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC109_231115	Field_D	EM2320952	0.18	0.06	***2.23***	0.57	0.50	2.05	0.05	<0.02	0.1	0.12	0.52	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC209_231115	Interlab_D	1048259	0.17	0.06	**1.97**	0.48	0.52	1.8	0.03	<0.01	0.17	0.11	0.49	0.04	<0.01	<0.01	<0.01	<0.01

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW610	On-site	02 Jun 2016	MW610	Normal	EM1606511	0.11	0.06	***3.58***	0.86	0.78	3.47	0.12	<0.02	<0.1	0.05	0.27	0.05	<0.02	<0.02	<0.02	<0.02
			QCA116	Field_D	EM1606511	0.1	0.06	***3.54***	0.83	0.71	3.44	0.13	<0.02	<0.1	0.04	0.25	0.05	<0.02	<0.02	<0.02	<0.02
			QCB117	Interlab_D	503282	0.05	0.17	***2.65***	0.85		2.6		<0.01	0.1	0.18	1	0.18	<0.01	<0.01	<0.01	<0.01
		20 Nov 2019	0937_MW610_191120	Normal	EM1920039	1.62	0.36	***7.73***	1.03	1.07	6.11	0.45	<0.02	0.1	0.28	1.33	0.21	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW610_20200616	Normal	EM2010514	1.52	0.29	***6.51***	0.91	1.02	4.99	0.35	<0.02	0.3	0.18	1.17	0.19	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW610_210128	Normal	EM2101229	5.67	**0.71**	***15.9***	1.73	1.73	10.2	1.05	<0.02	0.7	0.44	2.18	0.45	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW610_210713	Normal	EM2113872-AB	3.61	0.51	***10.6***	1.27	0.96	7.02	0.71	<0.02	0.8	0.36	1.76	0.30	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW610_220215	Normal	EM2202703	4.02	**0.72**	***13.8***	2.31	2.2	9.76	0.79	<0.02	0.3	0.54	2.89	0.44	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW610_220823	Normal	EM2216476	3.77	0.45	***9.51***	1.44	1.15	5.74	0.72	<0.02	0.2	0.37	1.31	0.29	<0.02	<0.02	<0.02	<0.02
MW612	On-site	31 May 2016	MW612	Normal	EM1606406	1.85	0.03	***3.97***	0.14	0.14	2.12	0.11	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW612_191120	Normal	EM1920039	3.37	0.09	***6.94***	0.15	0.15	3.57	0.20	<0.02	<0.1	0.08	0.55	0.06	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW612_20200317	Normal	EM2004711	4.75	0.11	***8.98***	0.20	0.32	4.23	0.28	<0.02	0.1	0.11	0.77	0.08	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_MW612_201110	Normal	EM2020050	3.14	0.06	***5.72***	0.14	0.12	2.58	0.19	<0.02	<0.1	0.06	0.38	0.04	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW612_210128	Normal	EM2101229	2.55	0.06	***4.93***	0.14	0.10	2.38	0.16	<0.02	<0.1	0.07	0.41	0.05	<0.02	<0.02	<0.02	<0.02
		22 Apr 2021	0937_MW612_20210422	Normal	EM2107085	2.34	0.06	***4.82***	0.13	0.10	2.48	0.15	<0.02	<0.1	0.06	0.45	0.04	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW612_210713	Normal	EM2113872-AB	1.76	0.05	***3.20***	0.11	0.08	1.44	0.10	<0.02	<0.1	0.04	0.24	0.03	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_MW612_211115	Normal	EM2123080	1.50	0.04	***2.81***	0.12	0.15	1.31	0.08	<0.02	<0.1	0.04	0.20	0.03	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW612_220216	Normal	EM2202703	2.03	0.06	***4***	0.16	0.15	1.97	0.12	<0.02	<0.1	0.08	0.44	0.05	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_MW612_220525	Normal	EM2210316	3.54	0.06	***6.39***	0.14	0.12	2.85	0.19	<0.02	<0.1	0.07	0.44	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC106_220525	Field_D	EM2210316	4.48	0.09	***8.57***	0.19	0.17	4.09	0.21	<0.02	<0.1	0.12	0.63	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC206_220525	Interlab_D	893740	4.2	0.05	***7.5***	0.12	0.17	3.3	0.27	<0.01	<0.05	0.08	0.35	0.04	<0.01	<0.01	<0.01	<0.01
		23 Aug 2022	0937_MW612_220823	Normal	EM2216476	2.16	0.05	***4.17***	0.11	0.10	2.01	0.16	<0.02	<0.1	0.07	0.32	0.04	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_MW612_221124	Normal	EM2223510	2.39	0.06	***4.87***	0.13	0.11	2.48	0.15	<0.02	<0.1	0.06	0.40	0.05	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW612_231116	Normal	EM2320952	3.24	0.07	***5.82***	0.13	0.13	2.58	0.21	<0.02	<0.1	0.06	0.39	0.05	<0.02	<0.02	<0.02	<0.02
MW616	On-site	10 May 2016	MW616	Normal	EM1605278	184	***10.4***	***315***	21.9	20.4	131	5.5	<0.02	8.4	5.48	28.4	3.13	<0.02	<0.02	<0.05	<0.05
		29 Nov 2019	0937_MW616_191129	Normal	EM1920529	308	***15.2***	***458***	23.8	31.3	150	15.7	0.09	4.4	7.34	41.2	6.90	<0.05	<0.05	<0.05	<0.05
		17 Mar 2020	0937_MW616_20200317	Normal	EM2004711	536	***28.2***	***825***	39.5	49.0	289	31.9	0.19	5.7	12.2	74.0	13.9	0.08	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW616_20200616	Normal	EM2010514	414	***19.2***	***597***	22.8	31.8	183	16.1	0.66	8.6	9.28	45.8	9.56	0.04	<0.02	<0.02	<0.02
		13 Nov 2020	0937_MW616_201110	Normal	EM2020050	259	***10.5***	***364***	16.2	22.9	105	10.9	<0.04	3.4	5.17	29.1	5.76	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW616_210128	Normal	EM2101229	216	***15.1***	***324***	19.6	34.2	108	16.7	0.19	6.0	6.66	35.5	7.37	0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_MW616_20210428	Normal	EM2107858	304	***14.9***	***457***	21.5	26.6	153	17.5	0.11	6.7	7.70	39.2	8.23	<0.04	<0.04	<0.04	<0.04
		14 Jul 2021	0937_MW616_210714	Normal	EM2113872-AB	142	***12.9***	***290***	17.5	23.0	148	10.1	<0.04	3.0	5.56	26.2	6.14	<0.04	<0.04	<0.04	<0.04
		12 Nov 2021	0937_MW616_211112	Normal	EM2123080	192	***26.3***	***562***	40.0	49.3	370	25.0	<0.04	5.8	12.0	53.3	10.7	<0.04	<0.04	<0.04	<0.04
		16 Feb 2022	0937_MW616_220216	Normal	EM2202703	403	***43.3***	***1,060***	76.8	98.6	657	38.4	<0.05	10.5	23.1	122	18.9	0.08	<0.05	<0.05	<0.05
		25 May 2022	0937_MW616_220525	Normal	EM2210316	309	***32.4***	***819***	44.2	63.2	510	34.6	<0.50	9.9	13.7	76.2	13.4	<0.50	<0.50	<0.50	<0.50
		24 Aug 2022	0937_MW616_220824	Normal	EM2216476	476	***36.3***	***1,010***	47.2	64.8	533	41.7	0.10	5.8	13.2	71.5	14.8	0.07	<0.03	<0.03	<0.03
		23 Nov 2022	0937_MW616_221123	Normal	EM2223510	359	***34.8***	***819***	50.0	66.8	460	39.4	0.11	4.6	13.7	76.8	14.4	0.12	<0.03	<0.03	<0.03
		16 Nov 2023	0937_MW616_231116	Normal	EM2320952	250	***25.7***	***601***	31.9	55.0	351	26.9	<0.37	4.8	9.77	56.8	10.5	0.11	<0.04	<0.04	<0.04
MW617	On-site	02 Jun 2016	MW617	Normal	EM1606511	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2019	0937_MW617_191129	Normal	EM1920529	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW617_200617	Normal	EM2010514	0.17	<0.01	**0.29**	0.04	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW617_210201	Normal	EM2101575	0.67	<0.01	**0.73**	0.03	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW617_210715	Normal	EM2113872-AB	0.11	<0.01	**0.17**	0.05	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW617_220216	Normal	EM2202703	0.08	<0.01	**0.15**	0.03	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW617_220825	Normal	EM2216476	0.35	<0.01	**0.53**	0.05	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW617_231115	Normal	EM2320952	0.50	<0.01	**0.67**	0.02	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW622	On-site	12 May 2016	MW622	Normal	EM1605438	161	**5.21**	***287***	22.1	16.5	126	11.5	<0.02	8.6	5.45	34.1	1.77	<0.02	<0.02	<0.05	<0.05
		29 Nov 2019	0937_MW622_191129	Normal	EM1920529	350	**7.68**	***508***	15.5	19.5	158	19.7	<0.05	2.8	8.37	59.8	2.72	0.05	<0.05	<0.05	<0.05
		11 Nov 2020	0937_MW622_20111	Normal	EM2020050	395	**7.24**	***505***	12.2	18.3	110	23.5	<0.04	3.4	6.72	39.6	2.51	0.04	<0.04	<0.04	<0.04
		04 Aug 2021	0937_MW622_210803	Normal	EM2115476	551	**8.86**	***695***	13.9	11.0	144	19.6	0.06	1.4	6.94	38.8	2.92	0.07	<0.04	<0.04	<0.04
		16 Nov 2021	0937_MW622_211116	Normal	EM2123080	129	**9.03**	***391***	75.9	61.4	262	11.1	<0.04	2.7	20.8	88.8	6.88	<0.04	<0.04	<0.04	<0.04
		16 Feb 2022	0937_MW622_220216	Normal	EM2202703	292	***19.3***	***810***	102	87.9	518	39.7	<0.05	15.8	27.6	154	10.4	0.11	<0.05	<0.05	<0.05
		26 May 2022	0937_MW622_220525	Normal	EM2210316	260	***13.6***	***588***	49.6	47.5	328	25.2	<0.50	11.5	15.0	78.7	6.40	<0.50	<0.50	<0.50	<0.50
		24 Aug 2022	0937_MW622_220824	Normal	EM2216476	129	**5.47**	***274***	20.0	20.9	145	10.5	<0.04	1.1	5.48	26.1	2.63	<0.04	<0.04	<0.04	<0.04
		23 Nov 2022	0937_MW622_221123	Normal	EM2223510	240	***11.9***	***485***	50.0	39.9	245	18.2	<0.04	2.3	13.1	65.3	5.76	0.10	<0.04	<0.04	<0.04
		15 Nov 2023	0937_MW622_231115	Normal	EM2320952	254	**9.96**	***472***	34.6	43.5	218	19.6	<0.04	3.2	9.89	56.4	4.56	0.11	<0.04	<0.04	<0.04
			0937_QC101_231115	Field_D	EM2320952	241	***10.7***	***437***	37.1	29.1	196	19.0	<0.03	2.3	9.52	50.6	5.02	0.13	<0.03	<0.03	<0.03
			0937_QC201_231115	Interlab_D	1048259	210	**7.2**	***370***	28	23	160	10	<1	5.5	7.0	35	2.8	<1	<0.01	<0.01	<0.01
MW623	On-site	02 Jun 2016	MW623	Normal	EM1606511	3.2	0.07	***5.79***	0.63	0.52	2.59	0.23	<0.02	<0.1	<0.02	0.22	0.03	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW623_191128	Normal	EM1920529	2.28	0.10	***4.87***	0.52	0.45	2.59	0.16	<0.02	0.2	0.13	0.60	0.06	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW623_210803	Normal	EM2115476	4.40	0.12	***6.72***	0.54	0.44	2.32	0.16	<0.02	0.2	0.15	0.53	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC121_210803	Field_D	EM2115476	3.73	0.11	***5.87***	0.54	0.41	2.14	0.18	<0.02	0.3	0.14	0.48	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC221_210803	Interlab_D	815502	4.9	0.14	***7.3***	0.54	0.40	2.4	0.14	<0.01	0.22	0.19	0.59	0.07	<0.01	<0.01	<0.01	<0.01
		16 Feb 2022	0937_MW623_220216	Normal	EM2202703	4.86	0.19	***7.99***	0.88	0.66	3.13	0.25	<0.02	0.2	0.22	0.99	0.08	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_MW623_220824	Normal	EM2216476	4.13	0.12	***6.50***	0.52	0.38	2.37	0.22	<0.02	<0.1	0.14	0.37	0.06	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW623_231115	Normal	EM2320952	4.77	0.13	***7.19***	0.52	0.40	2.42	0.24	<0.02	0.1	0.12	0.50	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC100_231115	Field_D	EM2320952	3.64	0.12	***6.23***	0.49	0.48	2.59	0.20	<0.02	0.1	0.12	0.52	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC200_231115	Interlab_D	1048259	4.4	0.11	***6.6***	0.47	0.48	2.2	0.22	<0.01	0.16	0.10	0.46	0.05	<0.01	<0.01	<0.01	<0.01
MW626	On-site	12 May 2016	MW626	Normal	EM1605438	0.02	<0.01	0.06	0.03	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		27 Nov 2019	0937_MW626_191127	Normal	EM1920529	0.06	<0.01	**0.32**	0.17	0.10	0.26	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW626_200617	Normal	EM2010514	0.24	0.02	**0.64**	0.20	0.12	0.40	<0.02	<0.02	<0.1	0.03	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC100_200617	Field_D	EM2010514	0.21	0.01	**0.58**	0.20	0.11	0.37	<0.02	<0.02	<0.1	0.03	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC200_200617	Interlab_D	726765	0.15	<0.01	**0.38**	0.11	0.06	0.23	<0.01	<0.01	<0.05	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
		03 Feb 2021	0937_MW626_210203	Normal	EM2101575	0.66	0.11	***2.26***	0.47	0.24	1.60	0.09	<0.02	0.2	0.80	1.13	0.24	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW626_210803	Normal	EM2115476	2.37	0.13	***4.58***	0.29	0.19	2.21	0.12	<0.02	0.1	1.27	1.43	0.49	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW626_220216	Normal	EM2202703	4.56	0.22	***7.37***	0.47	0.39	2.81	0.17	<0.02	0.2	1.47	2.05	0.5	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_MW626_220824	Normal	EM2216476	2.00	0.08	***3.52***	0.32	0.25	1.52	0.09	<0.02	0.1	0.68	0.60	0.24	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW626_231115	Normal	EM2320952	0.76	0.12	***5.28***	1.53	1.24	4.52	0.03	<0.02	0.5	1.40	2.00	0.79	<0.02	<0.02	<0.02	<0.02
MW627	On-site	12 May 2016	MW627	Normal	EM1605438	12.3	**0.7**	***24.1***	1.74	1.8	11.8	0.74	<0.02	<0.1	0.48	2.5	0.3	<0.02	<0.02	<0.05	<0.05
		28 Nov 2019	0937_MW627_191128	Normal	EM1920529	15.7	**0.99**	***46.7***	3.79	5.59	31.0	1.81	<0.02	0.8	1.05	5.24	0.59	<0.02	<0.02	<0.02	<0.02
			0937_QC101_191128	Field_D	EM1920529	2.23	0.10	***4.87***	0.52	0.45	2.64	0.17	<0.02	0.2	0.12	0.60	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC201_191128	Interlab_D	EM1920529	2.29	0.10	***4.89***	0.52	0.45	2.60	0.16	<0.02	0.2	0.13	0.62	0.07	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW627_200617	Normal	EM2010514	10.9	**1.44**	***33.9***	4.89	4.88	23.0	1.28	<0.02	1.0	1.27	6.62	0.69	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW627_201111	Normal	EM2020050	16.7	**1.02**	***33.9***	3.32	2.94	17.2	1.00	<0.04	0.7	0.97	5.12	0.57	<0.04	<0.04	<0.04	<0.04
		03 Feb 2021	0937_MW627_210203	Normal	EM2101575	11.6	**0.89**	***28.3***	2.89	1.98	16.7	0.96	<0.04	<0.2	1.02	4.63	0.51	<0.04	<0.04	<0.04	<0.04
		27 Apr 2021	0937_ MW627 _20210427	Normal	EM2107858	11.4	**0.91**	***28.5***	3.12	2.76	17.1	1.02	<0.02	0.9	1.03	5.00	0.56	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW627_210803	Normal	EM2115476	16.5	**1.32**	***38.9***	2.86	1.93	22.4	1.81	<0.02	0.9	1.19	5.26	0.62	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW627_211116	Normal	EM2123080	14.2	**1.90**	***48.8***	3.33	2.93	34.6	1.57	<0.02	0.5	1.47	7.18	1.09	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW627_220216	Normal	EM2202703	15.1	**2.65**	***62.5***	10.8	7.56	47.4	2.15	<0.02	4	5.42	30.8	1.73	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC213_220525	Interlab_D	893740	20	**2.1**	***58***	4.5	4.3	38	1.9	<0.01	1.5	2.5	13	0.98	<0.01	<0.01	<0.01	<0.01
		26 May 2022	0937_MW627_220525	Normal	EM2210316	17.7	**1.88**	***52.6***	4.99	6.13	34.9	2.77	<0.02	1.5	2.63	13.7	0.94	<0.02	<0.02	<0.02	<0.02
			0937_QC113_220525	Field_D	EM2210316	17.5	**2.00**	***54.5***	5.24	4.97	37.0	1.77	<0.02	1.3	2.43	13.9	1.03	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_MW627_220824	Normal	EM2216476	25.6	**1.44**	***52.4***	3.28	4.46	26.8	2.16	<0.02	0.4	1.59	5.62	0.75	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW627_221123	Normal	EM2223510	15.2	**1.35**	***37.2***	3.43	4.92	22.0	1.46	<0.02	0.6	1.13	7.21	0.64	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW627_231115	Normal	EM2320952	15.8	**1.33**	***37.6***	3.85	4.01	21.8	1.37	<0.02	0.7	1.62	7.92	0.74	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW628	On-site	20 Aug 2015	MW628	Normal	EM1513576	6.33	0.39	***6.33***													
		01 Jun 2016	MW628	Normal	EM1606406	5.74	0.22	***15.94***	2.4	2.34	10.2	0.37	<0.02	<0.1	0.1	0.62	0.1	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW628_191128	Normal	EM1920529	5.02	0.21	***9.52***	0.93	0.85	4.50	0.26	<0.02	0.2	0.23	1.12	0.12	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW628_20200318	Normal	EM2004711	7.33	0.40	***14.7***	1.48	1.55	7.33	0.34	<0.05	<0.2	0.42	2.02	0.22	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW628_20200617	Normal	EM2010514	4.86	0.27	***9.68***	1.05	1.02	4.82	0.26	<0.02	0.2	0.28	1.60	0.14	<0.02	<0.02	<0.02	<0.02
		09 Nov 2020	0937_MW628_201109	Normal	EM2020050	3.76	0.24	***10.0***	1.47	1.29	6.27	0.26	<0.02	0.3	0.22	1.09	0.14	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_MW628_210129	Normal	EM2101229	4.46	0.24	***11.2***	1.33	1.12	6.74	0.26	<0.02	0.2	0.21	1.12	0.12	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW628 _20210420	Normal	EM2107085	3.72	0.19	***7.92***	1.05	0.78	4.20	0.22	<0.02	0.2	0.18	0.96	0.11	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW628_210803	Normal	EM2115476	2.23	0.18	***17.4***	2.39	1.42	15.2	0.26	<0.02	0.1	0.16	0.99	0.10	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW628_211116	Normal	EM2123080	2.54	0.17	***21.8***	2.28	2.06	19.3	0.26	<0.02	0.1	0.14	0.50	0.15	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW628_220217	Normal	EM2202703	3.97	0.29	***21.2***	3.81	4.06	17.2	0.34	<0.02	0.2	0.31	1.86	0.19	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW628_220530	Normal	EM2210316	3.94	0.22	***13.9***	1.78	1.77	9.95	0.29	<0.02	0.2	0.24	1.17	0.12	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW628_220825	Normal	EM2216476	1.42	0.07	***19.3***	1.70	2.34	17.9	0.24	<0.02	<0.1	0.08	0.36	0.06	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW628_221123	Normal	EM2223510	1.97	0.14	***11.0***	1.41	1.54	9.08	0.18	<0.02	<0.1	0.12	0.83	0.08	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW628_231116	Normal	EM2320952	2.52	0.16	***13.9***	1.91	1.62	11.4	0.30	<0.02	<0.1	0.21	1.00	0.11	<0.02	<0.02	<0.02	<0.02
MW636	MW	20 Aug 2015	MW636	Normal	EM1513576	<0.02	<0.02	<0.02													
		13 May 2016	MW636	Normal	EM1605449	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05
		14 Jul 2021	0937_MW636_210714	Normal	EM2113872-AB	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW636_211117	Normal	EM2123080	0.04	0.08	**0.85**	0.14	0.13	0.81	<0.02	<0.02	0.2	0.24	0.37	0.08	<0.02	<0.02	<0.02	<0.02
		21 Feb 2022	0937_MW636_220221	Normal	EM2203247	0.47	0.09	**1.34**	0.12	0.1	0.87	0.03	<0.02	0.2	0.21	0.39	0.08	<0.02	<0.02	<0.02	<0.02
			0937_QC121_220221	Field_D	EM2203247	0.49	0.1	**1.42**	0.12	0.11	0.93	0.03	<0.02	0.2	0.21	0.4	0.08	<0.02	<0.02	<0.02	<0.02
			0937_QC221_220221	Interlab_D	866689	0.63	0.12	**1.73**	0.13	0.10	1.1	0.02	<0.01	0.23	0.25	0.42	0.10	<0.01	<0.01	<0.01	<0.01
		25 May 2022	0937_MW636_220525	Normal	EM2210316	0.60	0.10	**1.58**	0.12	0.11	0.98	0.03	<0.02	0.2	0.22	0.43	0.08	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW636_220823	Normal	EM2216476	0.38	0.08	**1.20**	0.10	0.09	0.82	0.03	<0.02	<0.1	0.18	0.21	0.07	<0.02	<0.02	<0.02	<0.02
			0937_QC104_220823	Field_D	EM2216476	0.35	0.08	**0.99**	0.10	0.07	0.64	0.02	<0.02	0.2	0.20	0.27	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC204_220823	Interlab_D	922647	0.45	0.08	**1.31**	0.09	0.08	0.86	0.03	<0.01	0.15	0.14	0.32	0.07	<0.01	<0.01	<0.01	<0.01
		24 Nov 2022	0937_MW636_221124	Normal	EM2223510	0.36	0.07	**1.12**	0.10	0.09	0.76	0.02	<0.02	<0.1	0.13	0.26	0.05	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW636_231116	Normal	EM2320952	0.36	0.07	**1.08**	0.17	0.08	0.72	0.02	<0.02	<0.1	0.13	0.24	0.06	<0.02	<0.02	<0.02	<0.02
MW701	On-site	18 Oct 2016	MW701	Normal	EM1612450	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW701_191128	Normal	EM1920529	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW701_20200318	Normal	EM2004711	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW701_20200617	Normal	EM2010514	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW701_201111	Normal	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0947_MW701_210201	Normal	EM2101575	0.06	<0.01	**0.12**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW701 _20210420	Normal	EM2107085	0.09	<0.01	**0.15**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW701_210803	Normal	EM2115476	0.03	<0.01	0.07	0.07	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW701_211116	Normal	EM2123080	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW701_220216	Normal	EM2202703	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_MW701_220526	Normal	EM2210316	0.05	<0.01	**0.09**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW701_220825	Normal	EM2216476	0.20	0.01	**0.39**	0.03	0.03	0.19	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC110_220825	Field_D	EM2216476	0.20	0.01	**0.39**	0.04	0.02	0.19	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC210_220825	Interlab_D	922647	0.23	0.01	**0.44**	0.03	0.03	0.21	0.01	<0.01	<0.05	<0.01	0.08	0.02	<0.01	<0.01	<0.01	<0.01
		23 Nov 2022	0937_MW701_221123	Normal	EM2223510	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW701_231115	Normal	EM2320952	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW702	On-site	19 Oct 2016	MW702	Normal	EM1612530	4.72	0.23	***14.57***	1.45	0.86	6.36	0.22	<0.02	<0.1	0.14	0.6	0.13	<0.02	<0.02	<0.02	<0.02
						7.02	0.27		1.68	1.31	7.55	0.32		1.3	1.23	3.63	0.19				
		28 Nov 2019	0937_MW702_191128	Normal	EM1920529	3.78	0.26	***7.94***	0.93	0.82	4.16	0.24	<0.02	0.2	0.26	1.39	0.16	<0.02	<0.02	<0.02	<0.02
			0937_QC104_191128	Field_D	EM1920529	3.68	0.25	***7.97***	0.96	0.86	4.29	0.25	<0.02	0.2	0.27	1.37	0.16	<0.02	<0.02	<0.02	<0.02
			0937_QC204_191128	Interlab_D	EM1920529	3.73	0.26	***8.23***	0.98	0.90	4.50	0.27	<0.02	0.2	0.28	1.40	0.16	<0.02	<0.02	<0.02	<0.02
		02 Dec 2019	0937_MW702_191202	Normal	EM1920780																
		18 Mar 2020	0937_MW702_20200318	Normal	EM2004711	11.7	**0.78**	***22.1***	2.00	2.16	10.4	0.63	<0.05	<0.2	0.60	3.14	0.41	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW702_200617	Normal	EM2010514	7.86	0.46	***14.3***	1.07	1.30	6.42	0.41	<0.02	0.3	0.32	1.90	0.23	<0.02	<0.02	<0.02	<0.02
		09 Nov 2020	0937_MW702_201109	Normal	EM2020050	4.63	0.23	***8.33***	0.72	0.73	3.70	0.18	<0.04	<0.2	0.21	1.11	0.14	<0.04	<0.04	<0.04	<0.04
		29 Jan 2021	0937_MW702_210129	Normal	EM2101229	3.82	0.27	***7.69***	0.74	0.64	3.87	0.26	<0.02	0.2	0.22	1.12	0.13	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW702 _20210420	Normal	EM2107085	7.14	0.32	***11.8***	0.85	0.74	4.62	0.44	<0.02	0.2	0.24	1.23	0.18	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW702_210715	Normal	EM2113872-AB	6.62	0.32	***10.9***	0.86	0.54	4.24	0.41	<0.02	0.2	0.24	1.20	0.15	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW702_211116	Normal	EM2123080	5.33	0.26	***8.42***	0.62	0.52	3.09	0.19	<0.02	<0.2	0.19	0.61	0.15	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW702_220217	Normal	EM2202703	6.99	0.39	***12***	1.16	0.99	5.02	0.35	<0.02	0.2	0.33	1.86	0.21	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW702_220530	Normal	EM2210316	7.51	0.36	***12.6***	0.88	0.83	5.10	0.30	<0.02	0.2	0.30	1.37	0.19	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW702_220825	Normal	EM2216476	8.12	0.34	***13.6***	0.73	0.80	5.43	0.39	<0.02	<0.1	0.27	0.86	0.17	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW702_221123	Normal	EM2223510	8.17	0.34	***13.1***	0.78	0.83	4.96	0.35	<0.02	<0.1	0.18	1.02	0.15	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW702_231115	Normal	EM2320952	10.7	0.37	***15.6***	0.95	0.82	4.85	0.41	<0.02	0.1	0.18	0.90	0.18	<0.02	<0.02	<0.02	<0.02
MW704	On-site	18 Oct 2016	MW704	Normal	EM1612450	261	**7.96**	***523***	55.4	34.4	262	11.2	<0.02	<0.1	5.57	35.5	3.27	<0.02	<0.02	<0.02	<0.02
		27 Nov 2019	0937_MW704_191127	Normal	EM1920529	36.7	**1.84**	***89.6***	6.56	7.06	52.9	4.25	<0.02	1.0	1.63	9.72	1.06	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW704_20200318	Normal	EM2004711	48.5	**2.80**	***101***	7.16	8.85	52.4	3.62	<0.05	0.5	2.30	11.7	1.50	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW704_200617	Normal	EM2010514	17.5	**1.05**	***36.2***	2.58	3.93	18.7	1.66	<0.02	0.6	0.82	4.32	0.55	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW704_201111	Normal	EM2020050	1.30	0.05	***2.46***	0.18	0.17	1.16	0.08	<0.02	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW704_210203	Normal	EM2101575	49.6	**3.04**	***103***	8.47	6.67	53.8	4.20	<0.04	0.8	2.35	12.5	1.82	<0.04	<0.04	<0.04	<0.04
		28 Apr 2021	0937 _MW704 _20210428	Normal	EM2107858	4.76	0.28	***10.4***	0.91	0.77	5.62	0.35	<0.02	0.2	0.24	1.29	0.19	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW704_210803	Normal	EM2115476	3.81	0.35	***10.3***	1.02	0.71	6.49	0.47	<0.02	0.2	0.31	1.63	0.19	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW704_211116	Normal	EM2123080	4.27	0.40	***12.4***	1.26	1.09	8.08	0.40	<0.02	<0.2	0.35	1.13	0.29	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW704_220216	Normal	EM2202703	20.2	**1.48**	***49.9***	4.74	5.04	29.7	1.92	<0.02	0.7	1.57	7.71	0.97	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_MW704_220525	Normal	EM2210316	38.3	**2.49**	***83.5***	7.30	12.0	45.2	5.15	<0.02	1.3	1.99	11.5	1.22	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_MW704_220824	Normal	EM2216476	33.6	**2.26**	***77.4***	6.62	8.39	43.8	3.30	<0.03	0.5	1.82	10.3	1.31	<0.03	<0.03	<0.03	<0.03
		23 Nov 2022	0937_MW704_221123	Normal	EM2223510	34.7	**2.63**	***78.3***	7.07	7.37	43.6	4.58	<0.02	0.8	1.87	9.42	1.46	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW704_231115	Normal	EM2320952	35.6	**2.57**	***74.4***	7.92	7.52	38.8	3.32	<0.02	0.8	1.38	8.93	1.43	<0.02	<0.02	<0.02	<0.02
MW705	On-site	18 Oct 2016	MW705	Normal	EM1612450	0.41	0.01	**0.94**	0.09	0.05	0.53	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Nov 2019	0937_MW705_191127	Normal	EM1920529	0.12	<0.01	**0.23**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW705_20200318	Normal	EM2004711	1.53	0.04	***2.19***	0.06	0.15	0.66	0.05	<0.02	<0.1	0.03	0.15	0.04	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW705_200617	Normal	EM2010514	0.33	<0.01	**0.53**	0.04	0.02	0.20	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW705_201111	Normal	EM2020050	0.20	<0.01	**0.34**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_MW705_210203	Normal	EM2101575	0.70	0.02	**1.02**	0.22	0.03	0.32	0.03	<0.02	<0.1	0.02	0.09	0.03	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_ MW705 _20210428	Normal	EM2107858	0.10	<0.01	**0.23**	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW705_210803	Normal	EM2115476	0.10	<0.01	**0.24**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW705_211116	Normal	EM2123080	0.20	<0.01	**0.35**	0.18	0.03	0.15	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW705_220216	Normal	EM2202703	0.74	0.03	**1.12**	0.17	0.05	0.38	0.03	<0.02	<0.1	0.03	0.13	0.02	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_MW705_220525	Normal	EM2210316	0.80	0.02	**1.14**	0.07	0.04	0.34	0.03	<0.02	<0.1	0.03	0.11	0.02	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_MW705_220824	Normal	EM2216476	0.86	0.02	**1.19**	0.09	0.05	0.33	0.03	<0.02	<0.1	0.03	0.07	0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW705_221123	Normal	EM2223510	0.93	0.02	**1.20**	0.10	0.03	0.27	0.02	<0.02	<0.1	<0.02	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW705_231115	Normal	EM2320952	1.61	0.02	**1.89**	0.07	0.04	0.28	0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC102_231115	Field_D	EM2320952	1.79	0.02	***2.11***	0.09	0.04	0.32	0.04	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC202_231115	Interlab_D	1048259	1.2	<0.01	**1.41**	0.03	0.02	0.21	0.02	<0.01	<0.05	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW707	On-site	19 Oct 2016	MW707	Normal	EM1612530	5.3	0.05	***7.53***	0.35	0.24	2.23	0.15	<0.02	<0.1	0.05	0.16	0.04	<0.02	<0.02	<0.02	<0.02
			QCA346	Field_D	EM1612530																
			QCB353	Interlab_D	520912																
		28 Nov 2019	0937_MW707_191128	Normal	EM1920529	10.3	0.13	***12.3***	0.28	0.27	2.00	0.18	<0.02	0.1	0.11	0.45	0.07	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_MW707_20200318	Normal	EM2004711	11.6	0.26	***14.9***	0.32	0.46	3.26	0.27	<0.05	<0.2	0.18	0.80	0.12	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW707_20200617	Normal	EM2010514	3.18	0.17	***4.99***	0.51	0.27	1.81	0.13	<0.02	<0.1	0.13	0.58	0.09	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW707_201111	Normal	EM2020050	2.41	0.08	***3.43***	0.28	0.18	1.02	0.09	<0.02	<0.1	0.08	0.36	0.06	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW707_210201	Normal	EM2101575	4.24	0.11	***5.70***	0.43	0.16	1.46	0.09	<0.02	<0.2	0.10	0.37	0.06	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW707 _20210420	Normal	EM2107085	5.81	0.13	***7.33***	0.22	0.17	1.52	0.18	<0.02	<0.1	0.09	0.41	0.06	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW707_210804	Normal	EM2115476	4.54	0.13	***6.12***	0.19	0.15	1.58	0.16	<0.02	<0.1	0.09	0.40	0.06	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW707_211116	Normal	EM2123080	3.16	0.08	***4.20***	0.19	0.18	1.04	0.07	<0.02	<0.1	0.10	0.35	0.04	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW707_220216	Normal	EM2202703	2.99	0.14	***5.15***	0.36	0.28	2.16	0.1	<0.02	<0.1	0.15	0.6	0.08	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW707_220530	Normal	EM2210316	2.90	0.10	***4.75***	0.22	0.23	1.85	0.07	<0.02	<0.1	0.17	0.41	0.06	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW707_220825	Normal	EM2216476	2.18	0.08	***3.76***	0.20	0.20	1.58	0.07	<0.02	<0.1	0.10	0.22	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC112_220825	Field_D	EM2216476	2.24	0.08	***3.80***	0.21	0.19	1.56	0.08	<0.02	<0.1	0.11	0.24	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC212_220825	Interlab_D	922647	2.7	0.09	***4.3***	0.24	0.20	1.6	0.08	<0.01	0.07	0.09	0.33	0.06	<0.01	<0.01	<0.01	<0.01
		29 Nov 2022	0937_MW707_221129	Normal	EM2223972	1.48	0.07	***2.80***	0.20	0.19	1.32	0.05	<0.02	<0.1	0.08	0.24	0.04	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW707_231115	Normal	EM2320952	1.76	0.07	***3.14***	0.25	0.20	1.38	0.06	<0.02	<0.1	0.08	0.27	0.05	<0.02	<0.02	<0.02	<0.02
MW708	On-site	18 Oct 2016	MW708	Normal	EM1612450	7.66	0.29	***14.84***	0.84	0.4	7.18	0.25	<0.02	<0.1	0.21	0.51	0.14	<0.02	<0.02	<0.02	<0.02
		29 Nov 2019	0937_MW708_191129	Normal	EM1920529	0.67	0.10	***2.77***	0.15	0.18	2.10	0.07	<0.02	0.2	1.10	0.91	0.25	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW708_20200318	Normal	EM2004711	0.37	0.13	***2.95***	0.31	0.57	2.58	0.09	<0.02	0.5	1.69	1.59	0.32	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW708_20200617	Normal	EM2010514	0.34	0.08	***1.82***	0.20	0.25	1.48	0.04	<0.02	0.2	0.77	0.82	0.16	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW708_201111	Normal	EM2020050	0.14	0.03	***0.67***	0.66	0.07	0.53	<0.02	<0.02	<0.1	0.22	0.31	0.07	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW708_210201	Normal	EM2101575	0.27	0.04	***1.07***	0.17	0.07	0.80	0.03	<0.02	<0.1	0.23	0.29	0.08	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW708 _20210420	Normal	EM2107085	0.40	0.05	***1.37***	0.12	0.09	0.97	0.04	<0.02	0.2	0.43	0.40	0.08	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW708_210804	Normal	EM2115476	0.33	0.06	***1.57***	0.12	0.10	1.24	0.05	<0.02	<0.1	0.22	0.29	0.09	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW708_211116	Normal	EM2123080	0.55	0.07	***1.67***	0.13	0.11	1.12	0.04	<0.02	<0.1	0.12	0.16	0.05	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW708_220217	Normal	EM2202703	0.62	0.18	***3.22***	0.21	0.17	2.6	0.08	<0.02	<0.1	0.23	0.4	0.12	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW708_220530	Normal	EM2210316	0.69	0.13	***3.79***	0.21	0.28	3.10	0.08	<0.02	0.1	0.53	0.53	0.14	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW708_220825	Normal	EM2216476	0.48	0.15	***3.69***	0.15	0.23	3.21	0.08	<0.02	<0.1	0.27	0.26	0.12	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW708_221123	Normal	EM2223510	0.48	0.16	***2.77***	0.17	0.19	2.29	0.08	<0.02	<0.1	0.26	0.33	0.10	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW708_231115	Normal	EM2320952	0.73	0.10	***2.11***	0.14	0.14	1.38	0.09	<0.02	<0.1	0.22	0.29	0.09	<0.02	<0.02	<0.02	<0.02
MW709	On-site	19 Oct 2016	MW709	Normal	EM1612530	2.45	0.12	***7.84***	1.32	0.86	5.39	0.18	<0.02	<0.1	0.1	0.4	0.09	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW709_191128	Normal	EM1920529	4.38	0.30	***12.5***	1.67	1.94	8.11	0.45	<0.02	0.3	0.32	1.75	0.21	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW709_20200318	Normal	EM2004711	5.69	0.30	***16.5***	2.07	3.17	10.8	0.48	<0.02	0.4	0.50	2.25	0.27	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW709_20200617	Normal	EM2010514	5.94	0.41	***15.0***	1.91	2.27	9.01	0.48	<0.02	0.4	0.38	2.10	0.24	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW709_201111	Normal	EM2020050	5.13	0.27	***11.4***	1.43	1.33	6.25	0.25	<0.04	<0.2	0.27	1.44	0.19	<0.04	<0.04	<0.04	<0.04
		01 Feb 2021	0937_MW709_210201	Normal	EM2101575	4.27	0.32	***10.7***	1.51	0.96	6.46	0.35	<0.02	<0.1	0.30	1.60	0.22	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_ MW709 _20210427	Normal	EM2107858	4.84	0.28	***11.3***	1.47	1.28	6.50	0.33	<0.02	0.3	0.29	1.57	0.18	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW709_210715	Normal	EM2113872-AB	3.90	0.27	***9.57***	1.19	0.92	5.67	0.33	<0.02	0.3	0.30	1.56	0.16	<0.02	<0.02	<0.02	<0.02
			0937_QC119_210715	Field_D	EM2113872-AB	3.74	0.28	***9.47***	1.20	0.96	5.73	0.35	<0.02	0.2	0.28	1.53	0.17	<0.02	<0.02	<0.02	<0.02
			0937_QC219_210715	Interlab_D	811260	6.5	0.36	***15.7***	1.3	1.9	9.2	0.53	<0.01	0.31	0.37	1.9	0.18	<0.01	<0.01	<0.01	<0.01
		16 Nov 2021	0937_MW709_211116	Normal	EM2123080	3.10	0.26	***8.32***	1.03	1.44	5.22	0.37	<0.02	0.2	0.30	1.27	0.16	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW709_220216	Normal	EM2202703	3.83	0.38	***10.7***	1.8	1.77	6.84	0.33	<0.02	0.2	0.4	2.16	0.23	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW709_220530	Normal	EM2210316	5.72	0.36	***13.9***	1.71	1.69	8.22	0.43	<0.02	0.3	0.59	2.01	0.24	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW709_220825	Normal	EM2216476	4.65	0.26	***10.4***	1.17	1.32	5.78	0.34	<0.02	0.1	0.27	0.88	0.17	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW709_221123	Normal	EM2223510	3.90	0.27	***9.37***	1.22	1.19	5.47	0.30	<0.02	0.1	0.25	1.13	0.16	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW709_231115	Normal	EM2320952	4.59	0.33	***10.9***	1.38	1.38	6.34	0.33	<0.02	0.2	0.26	1.25	0.19	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW711	On-site	19 Oct 2016	MW711	Normal	EM1612530	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		29 Nov 2019	0937_MW711_191129	Normal	EM1920529	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW711_20200318	Normal	EM2004711	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW711_200617	Normal	EM2010514	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW711_201111	Normal	EM2020050	<0.01	<0.01	0.04	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_MW711_210129	Normal	EM2101229	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_ MW711_20210428	Normal	EM2107858	1.17	0.02	**1.54**	0.07	<0.04	0.37	<0.04	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW711_210804	Normal	EM2115476	0.05	<0.01	**0.15**	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW711_211116	Normal	EM2123080	0.04	<0.01	**0.13**	<0.02	0.03	0.09	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Feb 2022	0937_MW711_220218	Normal	EM2202703	0.08	<0.01	**0.21**	0.07	0.03	0.13	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_MW711_220525	Normal	EM2210316	0.03	<0.01	**0.13**	0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_MW711_220824	Normal	EM2216476	0.04	<0.01	**0.12**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW711_221129	Normal	EM2223972	0.04	<0.01	**0.18**	0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW711_231120	Normal	EM2320952	0.04	<0.01	**0.21**	0.04	0.02	0.17	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW712	On-site	29 Nov 2019	0937_MW712_191129	Normal	EM1920529	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Dec 2019	0937_MW712_191202	Normal	EM1920780																
		11 Nov 2020	0937_MW712_201111	Normal	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW712_210201	Normal	EM2101575	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_ MW712 _20210421	Normal	EM2107085	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW712_210715	Normal	EM2113872-AB	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW712_211116	Normal	EM2123080	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW712_220217	Normal	EM2202703	0.04	<0.01	0.05	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW712_220530	Normal	EM2210316	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW712_220825	Normal	EM2216476	0.03	<0.01	0.03	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW712_221129	Normal	EM2223972	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW712_231115	Normal	EM2320952	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW714	On-site	20 Oct 2016	MW714	Normal	EM1612530	0.83	<0.01	**0.93**	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2019	0937_MW714_191129	Normal	EM1920529	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW714_20200318	Normal	EM2004711	0.10	<0.01	**0.12**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW714_200617	Normal	EM2010514	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC103_200617	Field_D	EM2010514	0.10	<0.01	**0.12**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC203_200617	Interlab_D	726765	0.05	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		09 Nov 2020	0937_MW714_201109	Normal	EM2020050	0.04	<0.01	0.04	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Jan 2021	0937_MW714_200127	Normal	EM2101229	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW714 _20210420	Normal	EM2107085	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW714_210715	Normal	EM2113872-AB	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW714_211116	Normal	EM2123080	0.05	<0.01	0.05	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Feb 2022	0937_MW714_220218	Normal	EM2202703	0.09	<0.01	**0.12**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW714_220530	Normal	EM2210316	0.08	<0.01	**0.10**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_MW714_220829	Normal	EM2217000	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW714_221129	Normal	EM2223972	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW714_231115	Normal	EM2320952	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW715	On-site	20 Oct 2016	MW715	Normal	EM1612530	0.62	<0.05	**0.72**	<0.05	<0.05	0.1	<0.05	<0.05	<0.1	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		29 Nov 2019	0937_MW715_191128	Normal	EM1920529	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW715_20200319	Normal	EM2004711	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW715_200616	Normal	EM2010514	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW715_201111	Normal	EM2020050	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC109_201111	Field_D	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC209_201111	Interlab_D	757178	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		01 Feb 2021	0937_MW715_210201	Normal	EM2101575	0.06	<0.01	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Apr 2021	0937_ MW715 _20210419	Normal	EM2107085	0.08	<0.01	**0.08**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW715_210802	Normal	EM2115476	0.01	<0.01	**0.01**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2021	0937_MW715_211122	Normal	EM2123477	0.07	<0.01	**0.11**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW715_220215	Normal	EM2202703	0.11	<0.01	**0.16**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC100_220215	Field_D	EM2202703	0.16	<0.01	**0.23**	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC200_220215	Interlab_D	864735	0.12	<0.01	**0.19**	<0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		30 May 2022	0937_MW715_220530	Normal	EM2210316	0.05	<0.01	**0.09**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_MW715_220826	Normal	EM2216476	0.03	<0.01	0.04	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW715_221128	Normal	EM2223972	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW715_231120	Normal	EM2320952	0.13	<0.01	**0.17**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW716	On-site	20 Oct 2016	MW716	Normal	EM1612530	9.44	0.11	***10.66***	0.14	0.13	1.22	0.28	<0.02	<0.1	0.04	0.16	0.05	<0.02	<0.02	<0.02	<0.02
		29 Nov 2019	0937_MW716_191129	Normal	EM1920529	0.09	<0.01	**0.13**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_MW716_20200316	Normal	EM2004711	0.11	<0.01	**0.15**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW716_20200616	Normal	EM2010514	0.10	<0.01	**0.15**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW716_201111	Normal	EM2020050	0.09	<0.01	**0.12**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Jan 2021	0937_MW716_210127	Normal	EM2101229	0.07	<0.01	**0.10**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Apr 2021	0937 _MW716 _20210419	Normal	EM2107085	0.06	<0.01	**0.08**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_MW716_210802	Normal	EM2115476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW716_211117	Normal	EM2123080	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW716_220215	Normal	EM2202703	0.03	<0.01	0.06	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW716_220530	Normal	EM2210316	0.22	<0.01	**0.34**	<0.02	<0.02	0.12	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_MW716_220826	Normal	EM2216476	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW716_221128	Normal	EM2223972	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_MW716_231120	Normal	EM2320952	0.09	<0.01	**0.11**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW719	On-site	20 Oct 2016	MW719	Normal	EM1612530	4,910	***280***	***8,530***	1,240	558	3,620	144	<0.02	120	122	928	85.2	0.07	<0.02	<0.02	<0.02
		25 Nov 2019	0937_MW719_191125	Normal	EM1920529	6,740	***285***	***10,400***	608	631	3,630	467	3.70	59.4	220	968	155	2.05	<0.50	<0.50	<0.50
		17 Mar 2020	0937_MW719_20200317	Normal	EM2004711	8,680	***322***	***12,700***	639	692	4,060	374	<5.00	55.0	220	1,040	174	<5.00	<5.00	<5.00	<5.00
		16 Jun 2020	0937_MW719_200616	Normal	EM2010514	5,820	***297***	***9,220***	491	607	3,400	464	14.6	132	188	924	143	2.05	0.23	<0.02	<0.02
		10 Nov 2020	0937_MW719_201110	Normal	EM2020050	4,120	***375***	***8,220***	601	626	4,100	274	4.39	54.0	186	894	172	1.49	0.09	<0.04	<0.04
		28 Jan 2021	0937_MW719_210128	Normal	EM2101229	3,860	***370***	***7,520***	536	500	3,660	252	5.27	56.3	192	868	177	1.16	0.10	<0.04	<0.04
		22 Apr 2021	0937_ MW719 _20210422	Normal	EM2107085	3,760	***194***	***6,600***	350	454	2,840	235	0.82	19.7	116	641	93.1	0.87	<0.38	<0.38	<0.38
		13 Jul 2021	0937_MW719_210713	Normal	EM2113872-AB	2,530	***186***	***4,560***	250	228	2,030	109	5.76	20.4	99.8	439	85.5	1.08	0.11	<0.04	<0.04
		15 Nov 2021	0937_MW719_211115	Normal	EM2123080	3,070	***480***	***7,380***	471	506	4,310	241	4.43	21.3	190	731	171	1.42	0.06	<0.04	<0.04
		22 Feb 2022	0937_MW719_220222	Normal	EM2203247	3,470	***350***	***7,970***	576	775	4,500	254	2.68	23.6	198	910	186	1.42	<0.35	<0.35	<0.35
			0937_QC222_220222	Interlab_D	866689	4,800	***450***	***10,400***	760	940	5,600	390	1.9	150	190	770	180	1.6	0.23	0.01	<0.01
		26 May 2022	0937_MW719_220526	Normal	EM2210316	1,260	***72.7***	***2,110***	126	132	854	62.4	0.48	36.1	53.9	229	39.8	2.26	0.19	<0.02	<0.02
		26 Aug 2022	0937_MW719_220826	Normal	EM2216476	2,600	***105***	***3,580***	117	195	980	77.4	<0.34	9.5	48.8	220	40.9	1.40	<0.34	<0.34	<0.34
		24 Nov 2022	0937_MW719_221124	Normal	EM2223510	3,000	***168***	***5,050***	261	325	2,050	191	1.72	16.4	91.0	419	73.2	1.06	<0.34	<0.34	<0.34
		17 Nov 2023	0937_MW719_231117	Normal	EM2320952	3,070	***366***	***6,150***	373	406	3,080	272	1.93	31.6	176	516	148	2.40	<0.38	<0.36	<0.36

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW720	On-site	20 Oct 2016	MW720	Normal	EM1612530	1,130	***60***	***2,380***	184	111	1,250	56.2	<0.02	32	78.2	200	4.21	0.04	<0.02	<0.02	<0.02
		25 Nov 2019	0937_MW720_191125	Normal	EM1920529	314	***15.7***	***723***	30.1	40.6	409	31.5	0.06	4.5	12.8	76.4	8.28	0.06	<0.05	<0.05	<0.05
		20 Mar 2020	0937_MW720_20200317	Normal	EM2004711	318	***21.1***	***711***	29.4	43.6	393	25.0	<0.05	4.3	13.4	73.8	10.3	0.10	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW720_200616	Normal	EM2010514	292	***20.8***	***678***	25.4	47.6	386	37.0	<0.02	7.4	12.5	78.5	8.76	0.09	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW720_201110	Normal	EM2020050	273	***15.3***	***607***	22.8	35.8	334	19.6	<0.04	3.7	10.0	57.4	7.69	0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW720_210128	Normal	EM2101229	315	***18.0***	***644***	25.2	29.5	329	30.4	<0.04	3.5	11.5	60.2	8.42	0.08	<0.04	<0.04	<0.04
		22 Apr 2021	0937_ MW720 _20210422	Normal	EM2107085	289	***17.0***	***589***	23.8	34.5	300	30.1	<0.04	2.2	10.2	56.3	8.18	0.05	<0.04	<0.04	<0.04
		13 Jul 2021	0937_MW720_210713	Normal	EM2113872-AB	2,700	***145***	***6,300***	254	283	3,600	127	0.50	19.3	174	942	87.0	0.44	0.04	<0.03	<0.03
		16 Nov 2021	0937_MW720_211116	Normal	EM2123080	1,360	***55.9***	***2,550***	78.5	107	1,190	57.7	0.15	8.0	44.0	209	25.0	0.21	<0.04	<0.04	<0.04
		17 Feb 2022	0937_MW720_220217	Normal	EM2202703	3,990	***166***	***7,330***	228	329	3,340	314	0.72	50.6	145	812	72.2	1.17	0.12	<0.02	<0.02
		26 May 2022	0937_MW720_220526	Normal	EM2210316	637	***49.0***	***1,650***	76.6	111	1,010	50.0	0.12	16.9	42.3	212	24.1	0.22	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW720_220825	Normal	EM2216476	409	***34.7***	***1,110***	48.3	110	704	43.9	<0.03	4.8	25.4	140	17.8	0.04	<0.03	<0.03	<0.03
		24 Nov 2022	0937_MW720_221124	Normal	EM2223510	332	***34.0***	***951***	55.3	93.9	619	28.3	0.04	4.9	23.2	132	17.2	0.12	<0.03	<0.03	<0.03
		17 Nov 2023	0937_MW720_231117	Normal	EM2320952	456	***43.4***	***1,370***	73.0	124	910	42.1	0.06	10.3	29.5	166	25.1	0.25	<0.04	<0.04	<0.04
MW724	On-site	18 Oct 2016	MW724	Normal	EM1612450	1.25	0.06	***3.61***	0.56	0.2	2.36	0.07	<0.02	<0.1	0.06	0.25	0.03	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW724_191120	Normal	EM1920039	0.20	0.01	**1.08**	0.58	0.35	0.88	<0.02	<0.02	<0.1	0.09	0.76	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW724_200616	Normal	EM2010514	0.32	0.01	**1.27**	0.54	0.41	0.95	<0.02	<0.02	<0.1	0.08	0.86	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW724_210128	Normal	EM2101229	0.40	0.01	**1.50**	0.71	0.44	1.10	<0.02	<0.02	<0.1	0.10	0.93	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW724_210713	Normal	EM2113872-AB	0.30	0.01	**1.94**	1.27	0.70	1.64	<0.02	<0.02	0.1	0.21	1.61	0.02	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW724_220215	Normal	EM2202703	0.78	0.11	***6.24***	3.71	2.12	5.46	0.07	<0.02	0.4	0.73	4.48	0.11	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW724_220823	Normal	EM2216476	0.39	0.04	***3.22***	2.24	1.21	2.83	<0.02	<0.02	0.2	0.43	2.48	0.06	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW724_231116	Normal	EM2320952	0.30	0.03	***3.46***	2.39	1.85	3.16	0.02	<0.02	0.1	0.43	2.78	0.06	<0.02	<0.02	<0.02	<0.02
MW725	On-site	17 Oct 2016	MW725	Normal	EM1612450	65.2	**1.39**	***101.9***	5.03	3.18	36.7	1.75	<0.02	<0.1	0.7	2.7	0.68	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW725_191120	Normal	EM1920039	7.59	**0.73**	***19.4***	1.53	2.04	11.8	0.69	<0.02	0.2	0.52	2.76	0.36	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW725_20200317	Normal	EM2004711	10.3	**0.70**	***25.3***	2.54	2.76	15.0	0.78	<0.05	1.1	1.20	3.22	0.40	<0.05	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW725_20200616	Normal	EM2010514	8.84	**0.94**	***24.3***	2.03	2.89	15.5	0.94	<0.02	0.5	0.74	3.77	0.50	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW725_201110	Normal	EM2020050	6.86	**0.68**	***20.4***	1.75	2.02	13.5	0.60	<0.04	<0.2	0.52	2.56	0.37	<0.04	<0.04	<0.04	<0.04
			0937_QC101_201110	Field_D	EM2020050	6.54	**0.70**	***18.0***	1.66	1.81	11.5	0.70	<0.02	0.6	0.58	2.75	0.40	<0.02	<0.02	<0.02	<0.02
			0937_QC201_201110	Interlab_D	757178	10	**1.0**	***28***	1.6	2.2	18	0.95	<0.01	0.49	0.74	3.6	0.52	<0.01	<0.01	<0.01	<0.01
		28 Jan 2021	0937_MW725_210128	Normal	EM2101229	5.99	**0.66**	***16.2***	1.46	2.02	10.2	0.65	<0.02	0.4	0.52	2.73	0.44	<0.02	<0.02	<0.02	<0.02
			0937_QC100_210128	Field_D	EM2101229	6.24	**0.69**	***18.1***	1.44	2.07	11.9	0.67	<0.02	0.4	0.54	2.71	0.41	<0.02	<0.02	<0.02	<0.02
			0937_QC200_210128	Interlab_D	770470	10	**1.0**	***30***	2.7	2.7	20	0.87	<0.01	0.43	1.2	3.9	0.50	<0.01	<0.01	<0.01	<0.01
		22 Apr 2021	0937_ MW725 _20210422	Normal	EM2107085	6.21	**0.71**	***17.3***	1.92	2.58	11.1	0.75	<0.02	0.4	0.58	3.05	0.46	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW725_210713	Normal	EM2113872-AB	6.57	**0.72**	***19.5***	1.39	1.23	12.9	0.75	<0.02	0.5	0.60	2.86	0.39	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_MW725_211112	Normal	EM2123080	6.22	**0.70**	***19.9***	1.43	3.04	13.7	1.08	<0.02	0.6	0.81	2.58	0.36	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW725_220215	Normal	EM2202703	7.35	**0.94**	***22.4***	2.5	3.47	15.1	0.82	<0.02	0.6	0.96	4.2	0.54	<0.02	<0.02	<0.02	<0.02
			0937_QC107_220215	Field_D	EM2202703	8.5	**0.91**	***28.3***	2.65	3.45	19.8	0.89	<0.02	0.6	0.83	5.08	0.59	<0.02	<0.02	<0.02	<0.02
			0937_QC207_220215	Interlab_D	864735	8.5	**1**	***25.5***	2.5	2.4	17	0.59	<0.01	0.68	0.94	3.3	0.56	<0.01	<0.01	<0.01	<0.01
		26 May 2022	0937_MW725_2205246	Normal	EM2210316	7.41	**0.82**	***21.1***	1.87	2.51	13.7	0.84	<0.02	0.5	1.11	3.50	0.49	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW725_220823	Normal	EM2216476	5.94	**0.65**	***16.6***	1.36	1.98	10.7	0.81	<0.02	0.2	0.52	2.20	0.36	<0.02	<0.02	<0.02	<0.02
		22 Nov 2022	0937_MW725_221122	Normal	EM2223510	5.95	**0.63**	***16.6***	1.36	1.76	10.7	0.67	<0.02	0.2	0.46	2.02	0.37	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW725_231115	Normal	EM2320952	4.91	0.38	***12.0***	0.85	1.11	7.13	0.45	<0.02	0.1	0.28	1.27	0.20	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW726	On-site	18 Oct 2016	MW726	Normal	EM1612450	0.93	**1.76**	***69.83***	39.1	17.8	68.9	1.81	<0.02	<0.1	2.46	8.16	1.68	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW726_191120	Normal	EM1920039	2.64	**4.04**	***77.9***	30.0	23.5	75.3	3.17	<0.02	2.6	5.87	24.4	3.16	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW726_20200317	Normal	EM2004711	4.38	**5.06**	***108***	44.0	36.8	104	5.19	<0.05	3.6	7.18	33.0	4.03	<0.05	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW726_20200616	Normal	EM2010514	5.48	**4.13**	***90.7***	25.0	30.4	85.2	5.64	<0.02	5.1	4.84	24.2	3.16	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW726_201110	Normal	EM2020050	2.77	**1.96**	***51.3***	18.0	14.3	48.5	2.09	<0.04	1.1	2.59	12.1	1.54	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW726_210128	Normal	EM2101229	7.50	**3.56**	***78.2***	33.3	29.0	70.7	4.46	<0.02	6.3	5.77	24.7	3.58	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_ MW726 _20210426	Normal	EM2107858	4.60	**2.34**	***55.7***	18.4	14.4	51.1	2.65	<0.04	3.2	3.27	13.9	1.85	<0.04	<0.04	<0.04	<0.04
		13 Jul 2021	0937_MW726_210713	Normal	EM2113872-AB	6.01	**2.65**	***48.7***	17.5	12.6	42.7	2.64	<0.04	1.8	3.14	14.0	2.05	<0.04	<0.04	<0.04	<0.04
			0937_QC102_210713	Field_D	EM2113872-AB	5.57	**2.58**	***57.2***	18.6	13.5	51.6	2.69	<0.04	1.6	3.49	15.6	1.90	<0.04	<0.04	<0.04	<0.04
			0937_QC202_210713	Interlab_D	811260	11	**5.1**	***88***	28	24	77	5.2	<0.01	6.1	6.7	20	3.4	**0.01**	<0.01	<0.01	<0.01
		15 Nov 2021	0937_MW726_211115	Normal	EM2123080	12.9	**4.20**	***94.7***	28.7	23.6	81.8	4.27	<0.04	1.8	5.44	22.0	2.99	<0.04	<0.04	<0.04	<0.04
		15 Feb 2022	0937_MW726_220215	Normal	EM2202703	93.6	***12.2***	***231***	34.4	37.4	137	18.5	<0.02	4	8.35	37.5	4.25	**0.04**	<0.02	<0.02	<0.02
		25 May 2022	0937_MW726_220525	Normal	EM2210316	75.8	***10.3***	***225***	26.0	26.1	149	16.2	<0.02	5.4	8.25	30.5	5.03	**0.04**	<0.02	<0.02	<0.02
			0937_QC104_220525	Field_D	EM2210316	72.4	**8.99**	***222***	23.8	27.6	150	15.4	<0.02	3.5	7.75	28.1	3.51	**0.03**	<0.02	<0.02	<0.02
			0937_QC204_220525	Interlab_D	893740	94	***11***	***109***	27	29	15	20	<0.01	5.1	6.1	31	3.9	**0.01**	<0.01	<0.01	<0.01
		23 Aug 2022	0937_MW726_220823	Normal	EM2216476	42.8	**7.48**	***157***	25.0	26.4	114	15.5	<0.04	2.0	5.20	26.8	3.37	<0.04	<0.04	<0.04	<0.04
		24 Nov 2022	0937_MW726_221124	Normal	EM2223510	28.0	**5.38**	***138***	29.6	28.0	110	7.17	<0.03	1.8	4.86	22.2	3.01	<0.03	<0.03	<0.03	<0.03
		16 Nov 2023	0937_MW726_231116	Normal	EM2320952	27.6	**5.79**	***117***	29.4	28.6	89.1	9.23	<0.04	2.5	5.68	25.4	3.41	<0.04	<0.04	<0.04	<0.04
MW728	On-site	17 Oct 2016	MW728	Normal	EM1612450	1.05	0.06	***3.05***	0.18	0.1	2	0.08	<0.02	<0.1	<0.02	0.1	0.03	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW728_191120	Normal	EM1920039	0.87	0.05	**1.51**	0.06	0.08	0.64	0.05	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW728_20200616	Normal	EM2010514	1.03	0.05	**1.83**	0.09	0.12	0.80	0.06	<0.02	<0.1	0.03	0.16	0.02	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW728_210128	Normal	EM2101229	0.87	0.04	**1.55**	0.09	0.09	0.68	0.06	<0.02	<0.1	0.03	0.14	0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW728_210713	Normal	EM2113872-AB	0.74	0.04	**1.37**	0.08	0.07	0.63	0.05	<0.02	<0.1	0.03	0.16	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC104_210713	Field_D	EM2113872-AB	0.80	0.04	**1.41**	0.09	0.09	0.61	0.06	<0.02	<0.1	0.02	0.16	0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC204_210713	Interlab_D	811260	1.0	0.04	**1.8**	0.09	0.14	0.80	0.07	<0.01	0.06	0.05	0.17	0.02	<0.01	<0.01	<0.01	<0.01
		15 Feb 2022	0937_MW728_220215	Normal	EM2202703	0.75	0.07	**1.86**	0.2	0.19	1.11	0.06	<0.02	<0.1	0.07	0.4	0.04	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW728_220823	Normal	EM2216476	0.59	0.04	**1.47**	0.15	0.16	0.88	0.05	<0.02	<0.1	0.06	0.24	0.03	<0.02	<0.02	<0.02	<0.02
			0937_QC100_220823	Field_D	EM2216476	0.58	0.04	**1.39**	0.17	0.15	0.81	0.04	<0.02	<0.1	0.07	0.23	0.03	<0.02	<0.02	<0.02	<0.02
			0937_QC200_220823	Interlab_D	922647	0.69	0.05	**1.79**	0.17	0.18	1.1	0.05	<0.01	<0.05	0.05	0.27	0.04	<0.01	<0.01	<0.01	<0.01
		15 Nov 2023	0937_MW728_231115	Normal	EM2320952	0.66	0.07	***2.16***	0.25	0.29	1.50	0.07	<0.02	<0.1	0.10	0.42	0.06	<0.02	<0.02	<0.02	<0.02
MW729	On-site	18 Oct 2016	MW729	Normal	EM1612450	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Nov 2019	0937_MW729_191125	Normal	EM1920529	0.10	<0.01	**0.19**	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW729_20200217	Normal	EM2004711	0.35	<0.01	**0.51**	0.03	0.04	0.16	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC100_20200317	Field_D	EM2004711	0.17	<0.01	**0.28**	0.02	0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC200_20200317	Interlab_D	711148	0.13	<0.01	**0.23**	0.02	0.01	0.10	<0.01	<0.01	<0.05	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		16 Jun 2020	0937_MW729_20200616	Normal	EM2010514	0.18	<0.01	**0.29**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW729_201110	Normal	EM2020050	3.25	0.06	***5.19***	0.40	0.21	1.94	0.14	<0.02	0.3	0.16	0.31	0.02	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW729_210128	Normal	EM2101229	0.31	<0.01	**0.53**	0.04	0.02	0.22	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_MW729_20210428	Normal	EM2107858	3.51	0.05	***4.94***	0.19	0.10	1.43	0.15	<0.02	0.2	0.09	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		14 Jul 2021	0937_MW729_210714	Normal	EM2113872-AB	2.76	0.05	***4.38***	0.22	0.16	1.62	0.12	<0.02	<0.1	0.06	0.17	0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW729_211116	Normal	EM2123080	6.25	0.12	***9.48***	0.33	0.35	3.23	0.21	0.03	0.1	0.16	0.35	0.04	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_MW729_220224	Normal	EM2203247	6.49	0.12	***9.71***	0.34	0.24	3.22	0.17	0.03	<0.1	0.1	0.37	0.03	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_MW729_220526	Normal	EM2210316	10.1	0.16	***15.2***	0.53	0.52	5.06	0.41	0.05	0.1	0.26	0.65	0.08	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW729_220825	Normal	EM2216476	4.04	0.05	***5.35***	0.12	0.11	1.31	0.09	<0.02	<0.1	0.05	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_MW729_221124	Normal	EM2223510	8.30	0.17	***13.5***	0.52	0.49	5.19	0.31	0.02	<0.1	0.14	0.50	0.07	<0.02	<0.02	<0.02	<0.02
		17 Nov 2023	0937_MW729_231117	Normal	EM2320952	9.82	0.12	***13.8***	0.39	0.33	4.00	0.37	0.02	<0.1	0.12	0.37	0.05	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW730	On-site	19 Oct 2016	MW730	Normal	EM1612530	<0.01	<0.01	***3.08***	0.96	0.6	3.08	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			QCA349	Field_D	EM1612530																
			QCB356	Interlab_D	520912																
		20 Nov 2019	0937_MW730_191120	Normal	EM1920039	0.08	<0.01	***2.31***	0.37	0.39	2.23	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_MW730_200618	Normal	EM2010514	0.53	0.03	***2.60***	0.26	0.34	2.07	0.04	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_MW730_201111	Normal	EM2020050	0.12	<0.01	**1.83**	0.33	0.32	1.71	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_MW730_210129	Normal	EM2101229	0.15	<0.01	***2.17***	0.38	0.25	2.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_ MW730 _20210426	Normal	EM2107858	0.23	<0.01	***2.16***	0.42	0.31	1.93	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW730_210715	Normal	EM2113872-AB	0.34	0.01	**1.64**	0.35	0.22	1.30	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW730_211116	Normal	EM2123080	0.37	<0.01	**1.63**	0.19	0.26	1.26	0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW730_220217	Normal	EM2202703	0.32	0.01	**1.84**	0.39	0.32	1.52	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_MW730_220526	Normal	EM2210316	0.24	<0.01	**1.95**	0.42	0.37	1.71	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW730_220825	Normal	EM2216476	0.20	<0.01	**0.37**	0.03	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_MW730_221124	Normal	EM2223510	0.15	<0.01	**1.40**	0.32	0.25	1.25	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2023	0937_MW730_231117	Normal	EM2320952	0.31	<0.01	**1.67**	0.47	0.34	1.36	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW733	On-site	18 Oct 2016	MW733	Normal	EM1612450	0.52	<0.01	***2.31***	0.74	0.26	1.79	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
			QCA351	Field_D	EM1612450																
			QCB358	Interlab_D	520486																
		20 Nov 2019	0937_MW733_191120	Normal	EM1920034	0.08	<0.01	**0.97**	0.28	0.22	0.89	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW733_20200317	Normal	EM2004711	0.07	<0.01	**1.42**	0.55	0.50	1.35	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW733_200616	Normal	EM2010514	0.08	0.01	**1.44**	0.56	0.37	1.36	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0936_QC100_201110	Field_D	EM2020050	0.06	<0.01	**1.12**	0.39	0.25	1.06	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_MW733_201110	Normal	EM2020050	0.06	<0.01	**1.15**	0.40	0.27	1.09	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC200_01110	Interlab_D	757178	0.09	0.02	**1.29**	0.42	0.29	1.2	<0.01	<0.01	0.09	0.03	0.11	0.01	<0.01	<0.01	<0.01	<0.01
		28 Jan 2021	0937_MW733_210128	Normal	EM2101229	0.06	0.01	**1.16**	0.35	0.21	1.10	<0.02	<0.02	<0.1	0.02	0.12	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC102_210128	Field_D	EM2101229	0.08	0.01	**1.26**	0.37	0.25	1.18	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC202_210128	Interlab_D	770470	0.08	0.02	**1.38**	0.40	0.29	1.3	0.01	<0.01	0.06	0.04	0.12	0.01	<0.01	<0.01	<0.01	<0.01
		26 Apr 2021	0937_ MW733 _20210426	Normal	EM2107858	0.35	0.02	**1.70**	0.60	0.28	1.35	<0.04	<0.02	0.1	0.03	0.16	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_QC206_210713	Interlab_D	811260	0.23	0.02	**1.73**	0.63	0.55	1.5	0.02	<0.01	0.14	0.06	0.19	0.01	<0.01	<0.01	<0.01	<0.01
		14 Jul 2021	0947_QC106_210714	Field_D	EM2113872-AB	0.20	0.01	**1.50**	0.50	0.25	1.30	0.02	<0.02	0.1	0.04	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW733_210715	Normal	EM2113872-AB	0.21	0.01	**1.39**	0.59	0.28	1.18	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_MW733_211112	Normal	EM2123080	0.27	0.02	**1.80**	0.48	0.39	1.53	0.03	<0.02	0.1	0.08	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_MW733_220215	Normal	EM2202703	0.35	0.02	**1.95**	0.72	0.39	1.6	0.03	<0.02	0.1	0.08	0.28	0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC104_220215	Field_D	EM2202703	0.29	0.03	**1.87**	0.65	0.36	1.58	0.02	<0.02	0.1	0.07	0.29	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC204_220215	Interlab_D	864735	0.39	0.03	***2.19***	0.57	0.39	1.8	0.02	<0.01	0.19	0.08	0.19	0.02	<0.01	<0.01	<0.01	<0.01
		25 May 2022	0937_MW733_220525	Normal	EM2210316	4.02	0.02	***5.75***	0.57	0.38	1.73	0.05	<0.02	<0.1	0.07	0.20	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW733_220823	Normal	EM2216476	0.79	<0.01	**1.08**	0.09	0.04	0.29	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2022	0937_QC202_221122	Interlab_D	945182	0.60	0.02	**1.9**	0.62	0.33	1.3	0.03	<0.01	0.20	0.06	0.19	0.02	<0.01	<0.01	<0.01	<0.01
		23 Nov 2022	0937_MW733_221122	Normal	EM2223510	0.44	0.02	**1.72**	0.60	0.34	1.28	0.02	<0.02	0.1	0.07	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_MW733_231123	Normal	EM2320952	0.15	0.02	**1.75**	0.68	0.50	1.60	<0.02	<0.02	<0.1	0.04	0.16	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW734	On-site	18 Oct 2016	MW734	Normal	EM1612450	150	**2.5**	***253***	14.9	6.55	103	4.42	<0.02	<0.1	1.5	5.52	0.78	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW734_191120	Normal	EM1920039	84.1	**4.07**	***170***	7.82	8.13	85.4	7.13	<0.02	1.1	2.81	13.7	1.07	0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW734_20200317	Normal	EM2004711	149	**2.26**	***204***	4.40	6.36	55.5	6.37	<0.05	1.0	1.82	9.24	0.76	<0.05	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW734_200616	Normal	EM2010514	126	**2.55**	***183***	4.25	5.84	56.8	7.62	<0.02	1.2	1.67	8.51	0.66	0.03	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW734_201110	Normal	EM2020050	142	**1.44**	***180***	2.72	3.16	38.0	5.61	<0.04	1.0	1.31	5.48	0.40	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_MW734_210128	Normal	EM2101229	97.8	**0.94**	***121***	1.65	1.73	23.3	4.21	<0.04	0.4	0.85	3.39	0.27	<0.04	<0.04	<0.04	<0.04
			0937_QC104_210128	Field_D	EM2101229	108	**1.06**	***131***	1.66	2.73	23.4	4.19	<0.02	0.9	0.97	4.06	0.33	<0.02	<0.02	<0.02	<0.02
			0937_QC204_210128	Interlab_D	770470	170	**1.5**	***203***	2.7	2.3	33	9.2	0.01	0.97	2.1	5.3	0.37	0.03	<0.01	<0.01	<0.01
		26 Apr 2021	0937_ MW734 _2021042	Normal	EM2107858	80.1	**0.57**	***92.1***	1.02	1.29	12.0	2.41	<0.02	0.5	0.54	2.45	0.19	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW734_210713	Normal	EM2113872-AB	123	**0.74**	***140***	1.05	1.53	16.9	2.70	0.12	1.0	0.88	2.53	0.23	<0.02	<0.02	<0.02	<0.02
			0937_QC103_210713	Field_D	EM2113872-AB	111	**0.76**	***130***	1.12	1.12	18.6	2.71	0.04	0.8	0.93	2.69	0.20	<0.04	<0.04	<0.04	<0.04
			0937_QC203_210713	Interlab_D	811260	190	**1.0**	***215***	1.3	1.9	25	3.4	<0.5	1.4	1.1	2.9	0.19	<0.01	<0.01	<0.01	<0.01
		15 Nov 2021	0937_MW734_211115	Normal	EM2123080	239	**0.99**	***265***	1.47	1.80	26.4	4.42	<0.04	0.8	1.21	3.37	0.25	<0.04	<0.04	<0.04	<0.04
			0937_QC107_211115	Field_D	EM2123080	265	**1.06**	***292***	1.45	2.41	26.5	3.57	0.07	0.8	1.28	3.77	0.29	<0.04	<0.04	<0.04	<0.04
			0937_QC207_211115	Interlab_D	842318	300	**0.87**	***327***	1.5	1.7	27	2.5	<1	1.2	1.1	3.6	0.33	0.03	0.09	<0.01	<0.01
		15 Feb 2022	0937_MW734_220215	Normal	EM2202703	366	**1.5**	***401***	2.47	2.75	35.3	5.96	0.27	1.8	2.22	6.49	0.45	0.03	<0.02	<0.02	<0.02
		25 May 2022	0937_MW734_220524	Normal	EM2210316	452	**1.72**	***494***	2.83	3.52	42.2	8.72	0.13	2.1	3.60	7.58	0.55	0.05	<0.02	<0.02	<0.02
		23 Aug 2022	0937_MW734_220823	Normal	EM2216476	225	**0.77**	***245***	1.23	1.49	20.2	1.92	0.07	0.7	1.10	3.16	0.26	<0.04	<0.04	<0.04	<0.04
			0937_QC101_220823	Field_D	EM2216476	220	**0.67**	***241***	1.07	1.61	20.6	1.96	<0.04	1.1	1.16	3.13	0.23	<0.04	<0.04	<0.04	<0.04
			0937_QC201_220823	Interlab_D	922647	200	**0.63**	***220***	1.1	1.3	20	1.5	<0.01	1.3	1.1	3.1	0.21	0.02	<0.01	<0.01	<0.01
		22 Nov 2022	0937_MW734_221122	Normal	EM2223510	210	0.49	***227***	0.82	1.20	17.2	2.07	0.05	0.5	0.77	2.07	0.16	<0.03	<0.03	<0.03	<0.03
		25 Nov 2022	0937_QC200_221125	Interlab_D	945182	320	**0.61**	***337***	0.87	1.2	17	1.2	<0.01	1.3	1.1	2.4	0.20	<0.01	<0.01	<0.01	<0.01
		16 Nov 2023	0937_MW734_231116	Normal	EM2320952	161	0.48	***177***	0.95	1.32	15.9	1.32	0.09	0.4	0.60	2.10	0.16	<0.02	<0.02	<0.02	<0.02
			0937_QC110_231116	Field_D	EM2320952	169	0.55	***185***	1.18	1.12	16.2	1.17	0.08	0.4	0.65	1.99	0.19	<0.03	<0.03	<0.03	<0.03
			0937_QC210_231116	Interlab_D	1048259	200	**0.58**	***215***	0.87	1.0	15	<1	<1	0.79	0.64	2.0	0.15	0.02	<0.01	<0.01	<0.01
MW735	On-site	18 Oct 2016	MW735	Normal	EM1612450	<0.01	<0.01	**0.2**	0.05	<0.02	0.2	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW735_20200617	Normal	EM2010514	0.43	0.01	**0.66**	0.03	0.04	0.23	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW735_201111	Normal	EM2020050	0.12	<0.01	**0.15**	0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW735_210201	Normal	EM2101575	0.06	<0.01	**0.10**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW735 _20210420	Normal	EM2107085	0.06	<0.01	**0.08**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW735_210804	Normal	EM2115476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW735_211116	Normal	EM2123080	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_MW735_220216	Normal	EM2202703	0.17	<0.01	**0.28**	0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_MW735_220526	Normal	EM2210316	0.02	<0.01	0.05	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW735_220825	Normal	EM2216476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW735_221123	Normal	EM2223510	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC208_221123	Interlab_D	945182	0.03	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		15 Nov 2023	0937_MW735_231115	Normal	EM2320952	0.12	<0.01	**0.14**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
MW737	On-site	19 Oct 2016	MW737	Normal	EM1612530	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Nov 2019	0937_MW737_191120	Normal	EM1920039	0.31	<0.01	**0.37**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_MW737_200616	Normal	EM2010514	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW737_210128	Normal	EM2101229	0.05	<0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_MW737_210713	Normal	EM2113872-AB	0.10	<0.01	**0.12**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_MW737_211115	Normal	EM2123080	0.49	<0.01	**0.58**	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC108_211115	Field_D	EM2123080	0.22	<0.01	**0.27**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC208_211115	Interlab_D	842318	0.40	<0.01	**0.46**	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
		17 Feb 2022	0937_MW737_220217	Normal	EM2202703	0.7	<0.01	**0.78**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_MW737_220525	Normal	EM2210316	0.89	<0.01	**1.07**	0.09	<0.02	0.18	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC101_220525	Field_D	EM2210316	0.98	0.01	**1.20**	<0.02	0.02	0.22	<0.02	<0.02	<0.1	0.02	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC201_220525	Interlab_D	893740	0.80	<0.01	**0.94**	0.01	0.01	0.14	0.01	<0.01	<0.05	0.02	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
		23 Aug 2022	0937_MW737_220823	Normal	EM2216476	0.96	<0.01	**1.13**	0.02	<0.02	0.17	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW737_221122	Normal	EM2223510	0.20	<0.01	**0.26**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_MW737_231116	Normal	EM2320952	1.41	<0.01	**1.48**	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW738	On-site	18 Oct 2016	MW738	Normal	EM1612450	142	<0.01	***636***	8.73	7.73	73.7	3.16	<0.02	<0.1	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
						534	**3.51**		18	8.55	102	6.78			1.95	6.94	1.41				
		25 Nov 2019	0937_MW738_191125	Normal	EM1920529	56.9	**0.66**	***78.4***	2.02	1.73	21.5	1.66	<0.02	0.3	0.50	2.52	0.30	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_MW738_20200317	Normal	EM2004711	56.8	**0.84**	***75.5***	2.36	2.66	18.7	1.68	<0.05	0.3	0.60	2.42	0.38	<0.05	<0.05	<0.05	<0.05
		16 Jun 2020	0937_MW738_20200616	Normal	EM2010514	44.7	**0.81**	***65.1***	2.15	3.17	20.4	1.62	<0.02	0.4	0.57	2.60	0.38	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_MW738_201110	Normal	EM2020050	27.7	0.52	***39.6***	1.52	1.53	11.9	0.90	<0.02	0.2	0.34	1.57	0.22	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_MW738_210128	Normal	EM2101229	37.8	0.46	***49.0***	1.14	1.12	11.2	0.96	<0.04	<0.2	0.31	1.42	0.21	<0.04	<0.04	<0.04	<0.04
		28 Apr 2021	0937_ MW738 _20210428	Normal	EM2107858	28.5	0.43	***38.3***	1.06	1.18	9.84	0.83	<0.02	0.3	0.34	1.46	0.20	<0.02	<0.02	<0.02	<0.02
		14 Jul 2021	0937_MW738_210714	Normal	EM2113872-AB	55.1	**0.86**	***73.1***	2.05	2.83	18.0	1.71	<0.02	0.4	0.65	2.80	0.48	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW738_211116	Normal	EM2123080	50.8	**0.94**	***71.1***	3.27	3.02	20.3	1.39	<0.04	0.2	0.84	3.17	0.48	<0.04	<0.04	<0.04	<0.04
		18 Feb 2022	0937_MW738_220218	Normal	EM2202703	83.5	**2.39**	***142***	11.2	10.9	58.4	3.22	<0.02	1	2.75	13.8	1.72	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_MW738_220526	Normal	EM2210316	156	**6.05**	***314***	24.7	28.1	158	6.60	0.02	2.6	6.56	33.4	4.56	0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW738_220825	Normal	EM2216476	132	**5.06**	***251***	20.6	27.5	119	5.38	<0.03	1.5	5.11	25.8	3.73	<0.03	<0.03	<0.03	<0.03
		24 Nov 2022	0937_MW738_221124	Normal	EM2223510	103	**3.42**	***190***	15.2	17.6	87.5	4.62	<0.04	0.8	2.91	16.1	2.31	<0.04	<0.04	<0.04	<0.04
		17 Nov 2023	0937_MW738_231117	Normal	EM2320952	99.6	**5.42**	***229***	20.8	26.4	129	6.21	<0.02	1.3	5.01	26.5	4.41	0.02	<0.02	<0.02	<0.02
MW739	On-site	28 Oct 2016	MW739	Normal	EM1612912	3	0.1	***6.94***	0.92	0.63	3.94	0.17	<0.02	<0.1	0.17	0.49	0.07	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW739_191128	Normal	EM1920529	2.57	0.15	***5.67***	0.73	0.65	3.10	0.18	<0.02	0.1	0.19	0.96	0.10	<0.02	<0.02	<0.02	<0.02
		02 Dec 2019	0937_MW739_191202	Normal	EM1920780																
		18 Mar 2020	0937_MW739_20200318	Normal	EM2004711	5.36	0.34	***11.3***	1.42	1.69	5.96	0.34	<0.05	<0.2	0.30	1.76	0.24	<0.05	<0.05	<0.05	<0.05
		17 Jun 2020	0937_MW739_200617	Normal	EM2010514	7.64	0.42	***14.2***	1.06	1.18	6.60	0.37	<0.02	0.2	0.32	1.70	0.20	<0.02	<0.02	<0.02	<0.02
		09 Nov 2020	0937_MW739_201109	Normal	EM2020050	6.91	0.28	***11.3***	0.71	0.72	4.36	0.28	<0.04	<0.2	0.16	0.96	0.12	<0.04	<0.04	<0.04	<0.04
		29 Jan 2021	0937_MW739_210129	Normal	EM2101229	6.72	0.32	***10.5***	1.22	0.74	3.79	0.33	<0.02	0.2	0.24	1.18	0.20	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW739_20210420	Normal	EM2107085	8.90	0.34	***12.6***	0.97	0.72	3.73	0.52	<0.02	0.1	0.21	1.30	0.18	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_MW739_210715	Normal	EM2113872-AB	9.25	0.38	***13.4***	0.66	0.67	4.19	0.32	<0.02	0.2	0.22	1.10	0.18	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW739_211117	Normal	EM2123080	10.3	0.42	***15.0***	0.69	0.94	4.71	0.43	<0.02	0.2	0.29	1.29	0.19	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW739_220217	Normal	EM2202703	13.2	0.51	***19.1***	1.14	1.09	5.89	0.51	<0.02	0.2	0.4	2.04	0.29	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW739_220530	Normal	EM2210316	15.8	**0.64**	***24.1***	1.34	1.35	8.32	0.67	<0.02	0.2	0.60	1.93	0.31	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW739_220825	Normal	EM2216476	8.33	0.43	***14.6***	1.13	1.14	6.25	0.45	<0.02	0.1	0.37	1.13	0.24	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_MW739_221123	Normal	EM2223510	6.85	0.37	***11.8***	1.30	1.15	4.97	0.33	<0.02	0.2	0.33	1.44	0.20	<0.02	<0.02	<0.02	<0.02
			0937_QC207_221123	Interlab_D	945182	7.2	0.43	***12.9***	1.3	1.4	5.7	0.43	<0.01	0.24	0.25	1.8	0.23	<0.01	<0.01	<0.01	<0.01
		15 Nov 2023	0937_MW739_231115	Normal	EM2320952	6.44	0.36	***11.7***	1.59	1.24	5.30	0.42	<0.02	0.2	0.25	1.25	0.21	<0.02	<0.02	<0.02	<0.02
MW740	On-site	28 Oct 2016	MW740	Normal	EM1612912	1.24	0.06	***2.08***	0.1	0.08	0.84	0.03	<0.02	<0.1	0.03	0.12	0.03	<0.02	<0.02	<0.02	<0.02
		28 Nov 2019	0937_MW740_191128	Normal	EM1920529	4.55	0.09	***5.88***	0.15	0.16	1.33	0.11	<0.02	0.2	0.72	0.75	0.18	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW740_20200318	Normal	EM2004711	5.80	0.16	***7.52***	0.18	0.28	1.72	0.15	<0.02	0.2	0.60	0.94	0.22	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_MW740_20200617	Normal	EM2010514	6.56	0.19	***8.33***	0.22	0.24	2.10	0.15	<0.02	0.2	0.78	1.01	0.22	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_MW740_201111	Normal	EM2020050	3.44	0.14	***4.93***	0.25	0.20	1.49	0.11	<0.02	0.3	0.62	0.80	0.23	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW740_210101	Normal	EM2101575	3.47	0.12	***4.89***	0.22	0.19	1.42	0.12	<0.02	0.1	0.47	0.66	0.15	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ MW740 _20210420	Normal	EM2107085	2.98	0.09	***4.10***	0.18	0.12	1.12	0.09	<0.02	0.1	0.38	0.54	0.11	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_MW740_210805	Normal	EM2115476	3.23	0.13	***4.73***	0.19	0.13	1.50	0.10	<0.02	0.1	0.38	0.60	0.14	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_MW740_211116	Normal	EM2123080	3.05	0.13	***4.47***	0.14	0.22	1.42	0.11	<0.02	0.1	0.38	0.54	0.11	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW740_220217	Normal	EM2202703	3.68	0.15	***5.22***	0.22	0.2	1.54	0.11	<0.02	<0.1	0.46	0.8	0.15	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW740_220530	Normal	EM2210316	3.68	0.14	***5.48***	0.19	0.22	1.80	0.13	<0.02	<0.1	0.57	0.64	0.14	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW740_220825	Normal	EM2216476	3.23	0.12	***4.76***	0.17	0.16	1.53	0.11	<0.02	<0.1	0.35	0.37	0.12	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_MW740_221129	Normal	EM2223972	2.62	0.10	***3.93***	0.14	0.17	1.31	0.08	<0.02	<0.1	0.23	0.38	0.08	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW740_231115	Normal	EM2320952	2.93	0.11	***4.26***	0.14	0.19	1.33	0.11	<0.02	<0.1	0.27	0.43	0.10	<0.02	<0.02	<0.02	<0.02
			0937_QC103_231115	Field_D	EM2320952	3.38	0.11	***4.65***	0.20	0.16	1.27	0.11	<0.02	<0.1	0.22	0.44	0.10	<0.02	<0.02	<0.02	<0.02
			0937_QC203_231115	Interlab_D	1048259	3.2	0.10	***4.4***	0.14	0.15	1.2	0.08	<0.01	0.08	0.23	0.40	0.08	<0.01	<0.01	<0.01	<0.01

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
MW741	On-site	28 Oct 2016	MW741	Normal	EM1612912	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			QCA387	Field_D	EM1612912	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			QCB388	Interlab_D	521623	0.01	<0.01	0.01	<0.01		<0.01			<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		27 Nov 2019	0937_MW741_191127	Normal	EM1920529	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_MW741_20200318	Normal	EM2004711	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC101_20200318	Field_D	EM2004711	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC201_20200318	Interlab_D	711148	0.02	<0.01	0.03	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		17 Jun 2020	0937_MW741_200617	Normal	EM2010514	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC106_200617	Field_D	EM2010514	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC206_200617	Interlab_D	726765	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		11 Nov 2020	0937_MW741_201111	Normal	EM2020050	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_MW741_210201	Normal	EM2101575	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_ MW741 _20210421	Normal	EM2107085	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_MW741_210804	Normal	EM2115476	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_MW741_211117	Normal	EM2123080	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_MW741_220217	Normal	EM2202703	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_MW741_220530	Normal	EM2210316	<0.01	<0.01	0.01	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_MW741_220825	Normal	EM2216476	0.30	<0.01	**0.34**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC111_220825	Field_D	EM2216476	0.19	<0.01	**0.22**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC211_220825	Interlab_D	922647	0.29	<0.01	**0.37**	<0.01	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
		29 Nov 2022	0937_MW741_221129	Normal	EM2223972	0.36	<0.01	**0.52**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_MW741_231115	Normal	EM2320952	0.15	<0.01	**0.20**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT027	Off-site	31 May 2016	P001-OEW001	Normal	EM1606389	<0.01	<0.01	<0.01													
		07 Jun 2017	P001_OEW001	Normal	EM1707601	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_POT027_191103	Normal	EM1920781	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Jun 2020	0937_POT027_200619	Normal	EM2010389	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_POT027_210204	Normal	EM2101561	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_POT027_220223	Normal	EM2203196	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_POT027_220830	Normal	EM2216995	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_POT027_231123	Normal	EM2320911	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT034	Off-site	07 Jun 2017	P028_OEW001	Normal	EM1707594	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_POT034_191203	Normal	EM1920782	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_POT034_200618	Normal	EM2010388	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_POT034_210103	Normal	EM2101567	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_POT034_210805	Normal	EM2115487	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_POT034_220224	Normal	EM2203202	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_POT034_220830	Normal	EM2216990	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_POT034_231116	Normal	EM2320916	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT042	Off-site	01 Jun 2016	P003-OEW002	Normal	EM1606482	<0.01	<0.01	<0.01													
		08 Jun 2017	P003_OEW002	Normal	EM1707600	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_POT042_191203	Normal	EM1920790	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_POT042_20200319	Normal	EM2004707	0.04	<0.01	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_POT042_20200618	Normal	EM2010382	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_POT042_201112	Normal	EM2020041	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_POT042_210203	Normal	EM2101558	0.03	<0.01	0.03	0.03	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_POT042_20210429	Normal	EM2107856	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_POT042_210805	Normal	EM2115478	0.09	<0.01	**0.13**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_POT042_211118	Normal	EM2123001	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_POT042_220222	Normal	EM2203197	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 May 2022	0937_POT042_220529	Normal	EM2210255	0.05	<0.01	**0.08**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	0937_POT042_220831	Normal	EM2216994-AD	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_POT042_231121	Normal	EM2320912	0.38	<0.01	**0.44**	0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
POT050	Off-site	27 Jun 2016	P004-OEW003	Normal	EM1607524	<0.01	<0.01	<0.01													
		07 Jun 2017	P004_OEW003	Normal	EM1707598	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_POT050_191203	Normal	EM1920783	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_POT050_200618	Normal	EM2010383	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_POT050_210203	Normal	EM2101566	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_POT050_210804	Normal	EM2115482	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_POT050_220223	Normal	EM2203198	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_POT050_220830	Normal	EM2216993	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_POT050_231116	Normal	EM2320913	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
POT051	Off-site	01 Jun 2016	P003-OEW004	Normal	EM1606482	<0.01	<0.01	<0.01													
		08 Jun 2017	P003_OEW004	Normal	EM1707600	<0.01	<0.01	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Dec 2019	0937_POT051_191203	Normal	EM1920790	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_POT051_20200319	Normal	EM2004707	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_POT051_200618	Normal	EM2010382	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_POT051_201112	Normal	EM2020041	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_POT051_210203	Normal	EM2101558	0.10	<0.01	**0.12**	0.03	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_POT051_20210429	Normal	EM2107856	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_POT051_210806	Normal	EM2115478	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_POT051_211118	Normal	EM2123001	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_POT051_220223	Normal	EM2203197	0.01	<0.01	0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	0937_POT051_220831	Normal	EM2216994-AD	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_POT051_231121	Normal	EM2320912	0.37	<0.01	**0.39**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Notes

Denotes first-time detection above LOR in latest monitoring round

Denotes new exceedance of human health drinking water screening criteria in latest monitoring round

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW008	Off-site	03 May 2016	OMW008	Normal	EM1604884	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 Nov 2019	0937_MW008_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		19 Mar 2020	0937_MW008_20200319	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		18 Jun 2020	0937_MW008_20200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		12 Nov 2020	0937_MW008_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Feb 2021	0937_MW008_210204	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		04 May 2021	0937_MW008_20210504	Normal	EM2108091	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		06 Aug 2021	0937_MW008_210806	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		18 Nov 2021	0937_MW008_211118	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		22 Feb 2022	0937_MW008_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		28 May 2022	0937_MW008_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		29 Aug 2022	0937_MW008_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		29 Nov 2022	0937_MW008_221129	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11	
		20 Nov 2023	0937_MW008_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
MW009	Off-site	03 May 2016	OMW009	Normal	EM1604884	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 Nov 2019	0937_MW009_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		20 Mar 2020	0937_MW009_20200319	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		16 Jun 2020	0937_MW009_200616	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		12 Nov 2020	0937_MW009_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Feb 2021	0937_MW009_210204	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		29 Apr 2021	0937_MW009_20210429	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		05 Aug 2021	0937_MW009_210805	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		18 Nov 2021	0937_MW009_211118	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Feb 2022	0937_MW009_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		28 May 2022	0937_MW009_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		29 Aug 2022	0937_MW009_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		29 Nov 2022	0937_MW009_221129	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	0.21	
		20 Nov 2023	0937_MW009_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	1.05	
MW010	Off-site	04 May 2016	OMW010	Normal	EM1604970	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_OMW10_191203	Normal	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		17 Mar 2020	0937_MW010_20200317	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Jun 2020	0937_MW010_20200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		12 Nov 2020	0937_MW010_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	0.15	
		01 Feb 2021	0937_MW010_210201	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		21 Apr 2021	0937_MW010_20210421	Normal	EM2107087	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		06 Aug 2021	0937_MW010_210806	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Nov 2021	0937_MW010_211118	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Feb 2022	0937_MW010_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		31 May 2022	0937_MW010_220531	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	0.10	
		29 Aug 2022	0937_MW010_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		01 Dec 2022	0937_MW010_221201	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Nov 2023	0937_MW010_231123	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
MW014	Off-site	22 Nov 2019	0937_MW014_191122	Normal	EM1920034	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Jun 2020	0937_MW014_200623	Normal	EM2010689	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_MW014_210203	Normal	EM2101569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
		04 Aug 2021	0937_MW014_210804	Normal	EM2115486	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Feb 2022	0937_MW014_220222	Normal	EM2203195	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Aug 2022	0937_MW014_220829	Normal	EM2216998	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		20 Nov 2023	0937_MW014_231120	Normal	EM2320909	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	

						Perfluorocarbons													
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW015	Off-site	09 Jun 2017	OMW015	Normal	EM1707603	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_OMW15_191203	Normal	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Jun 2020	0937_MW015_200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		03 Feb 2021	0937_MW015_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		04 Aug 2021	0937_MW015_210804	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2021	0937_MW015_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Feb 2022	0937_MW015_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		29 May 2022	0937_MW015_220529	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Aug 2022	0937_MW015_220830	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		29 Nov 2022	0937_MW015_221129	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		20 Nov 2023	0937_MW015_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11	
MW016	Off-site	09 Jun 2017	OMW016	Normal	EM1707603	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_OMW16_191203	Normal	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		18 Jun 2020	0937_MW016_200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_MW016_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Aug 2021	0937_MW016_210804	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		17 Nov 2021	0937_MW016_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		22 Feb 2022	0937_MW016_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		29 May 2022	0937_MW016_220529	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		30 Aug 2022	0937_MW016_220830	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		29 Nov 2022	0937_MW016_221129	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		20 Nov 2023	0937_MW016_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10	
MW201	On-site	12 May 2016	MW201-S	Normal	EM1605441	<0.05	<0.05	0.18	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14,200	
		28 Nov 2019	0937_MW201S_191128	Normal	EM1920529	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9,210	
		02 Dec 2019	0937_MW201S_191202	Normal	EM1920780															
		18 Mar 2020	0937_MW201_20200318	Normal	EM2004711	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	14,000	
		17 Jun 2020	0937_MW201_20200617	Normal	EM2010514	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10,200	
		11 Nov 2020	0937_MW201_201111	Normal	EM2020050	<0.04	<0.10	0.06	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	7,160	
		03 Feb 2021	0937_MW201_210203	Normal	EM2101575	<0.04	<0.09	0.10	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	7,040	
		27 Apr 2021	0937_ MW201_20210427	Normal	EM2107858	<0.04	<0.09	0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	7,270	
		03 Aug 2021	0937_MW201_210803	Normal	EM2115476	<0.04	<0.09	0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.05	<0.05	<0.05	9,400	
		16 Nov 2021	0937_MW201_211116	Normal	EM2123080	<0.04	<0.09	0.07	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	8,850	
		16 Feb 2022	0937_MW201_220216	Normal	EM2202703	<0.05	<0.12	0.14	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	19,700	
		19 May 2022	0937_MW201_220525	Normal	EM2210316	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	21,300	
		24 Aug 2022	0937_MW201_220824	Normal	EM2216476	<0.36	<0.90	<0.36	<0.90	<0.90	<0.90	<0.90	<0.36	<0.36	<0.36	0.80	<0.36	<0.36	13,600	
		23 Nov 2022	0937_MW201_221123	Normal	EM2223510	<0.35	<0.87	<0.35	<0.87	<0.87	<0.87	<0.87	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	10,600	
		15 Nov 2023	0937_MW201_231115	Normal	EM2320952	<0.38	<0.95	<0.38	<0.95	<0.95	<0.95	<0.95	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	15,200	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW202	On-site	01 Jun 2016	MW202S	Normal	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1,220	
			QCA114	Field_D	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1,210	
			QCB115	Interlab_D	503025	<0.01	0.02	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01			
		28 Nov 2019	0937_MW202S_191128	Normal	EM1920529	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	786	
		18 Mar 2020	0937_MW202_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,020	
		17 Jun 2020	0937_MW202_20200617	Normal	EM2010514	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	715	
		11 Nov 2020	0937_MW202_201111	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	624	
		03 Feb 2021	0937_MW202_210203	Normal	EM2101575	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	716	
		28 Apr 2021	0937_ MW202 _20210428	Normal	EM2107858	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	684	
			0937_QC108_20210428	Field_D	EM2107858	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	667	
			QC208_20210428	Interlab_D	792537	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	938.56	732
		03 Aug 2021	0937_MW202_210803	Normal	EM2115476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	982	
			0937_QC120_210803	Field_D	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	825	
			0937_QC220_210803	Interlab_D	815502	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1,135.2	915
		16 Nov 2021	0937_MW202_211116	Normal	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,010	
			0937_QC114_211116	Field_D	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,030	
			0937_QC214_211116	Interlab_D	842318	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1,165.6	909
		16 Feb 2022	0937_MW202_220216	Normal	EM2202703	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2,160	
		26 May 2022	0937_MW202_220526	Normal	EM2210316	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,590	
		24 Aug 2022	0937_MW202_220824	Normal	EM2216476	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,300	
		23 Nov 2022	0937_MW202_221123	Normal	EM2223510	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,530	
		15 Nov 2023	0937_MW202_231115	Normal	EM2320952	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,180	
MW302	Off-site	28 Jun 2016	P011-OEW001	Normal	EM1607522															
			QCA128	Field_D	EM1607525															
			QCB129	Interlab_D	506186	<0.02	<0.02	<0.1	<0.1		<0.1				<0.02	<0.05	<0.02			
		08 Jun 2017	P011_OWE001	Normal	EM1707596	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Dec 2019	0937_MW302_191204	Normal	EM1920785	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Jun 2020	0937_MW302_200618	Normal	EM2010384	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		03 Feb 2021	0937_MW302_210204	Normal	EM2101564	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		05 Aug 2021	0937_MW302_210705	Normal	EM2115484	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Feb 2022	0937_MW302_220222	Normal	EM2203199	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		30 Aug 2022	0937_MW302_220830	Normal	EM2216992	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2023	0937_MW302_231117	Normal	EM2320914	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
MW304	Off-site	17 Oct 2015	35C	Normal												<0.1	<0.1			
		03 May 2016	OMW001	Normal	EM1604884	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
			QCA100	Field_D	EM1604884	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.26	
			QCB101_160503	Interlab_D	498992	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01			
		02 Dec 2019	0937_OMW001_191202	Normal	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.43	
		16 Mar 2020	0937_MW304_20200316	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.86	
		18 Jun 2020	0937_MW304_20200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	2.34	
		12 Nov 2020	0937_MW304_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59	
		03 Feb 2021	0937_MW304_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.56	
		28 Apr 2021	0937_MW304_20210428	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	1.14	
		04 Aug 2021	0937_MW304_210804	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44	
		17 Nov 2021	0937_MW304_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.28	
		22 Feb 2022	0937_MW304_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
		28 May 2022	0937_MW304_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		29 Aug 2022	0937_MW304_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29	
		30 Nov 2022	0937_MW304_221130	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
		21 Nov 2023	0937_MW304_231121	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.50	<0.05	<0.05	2.40	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW306	On-site	18 Apr 2016	FF-MW1	Normal																
		17 Mar 2020	0937_MW306_20200317	Normal	EM2004711	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4,820	
		16 Jun 2020	0937_MW306_200616	Normal	EM2010514	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3,460	
		10 Nov 2020	0937_MW306_201011	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	3,090	
		28 Jan 2021	0937_MW306_210128	Normal	EM2101229	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	2,920	
		26 Apr 2021	0937_MW306_20210426	Normal	EM2107858	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	4,150	
			0937_QC101_20210426	Field_D	EM2107858	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	4,440	
			QC201_20210426	Interlab_D	792537	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	380.7	29.3
		13 Jul 2021	0937_MW306_210713	Normal	EM2113872-AB	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	2,420	
			0937_QC101_210713	Field_D	EM2113872-AB	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	2,660	
			0937_QC201_210713	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	389.73	315.3
		15 Nov 2021	0937_MW306_211115	Normal	EM2123080	<0.04	<0.09	0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	3,350	
		15 Feb 2022	0937_MW306_220215	Normal	EM2202703	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3,810	
			0937_QC103_220215	Field_D	EM2202703	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4,420	
			0937_QC203_220215	Interlab_D	864735	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4,643.96	3,770
		24 May 2022	0937_QC100_220524	Field_D	EM2210316	<0.40	<1.00	<0.40	<1.00	<1.00	<1.00	<1.00	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	2,910	
			0937_QC200_220524	Interlab_D	893740	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1,998.85	1,316
		25 May 2022	0937_MW306_220525	Normal	EM2210316	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3,950	
		23 Aug 2022	0937_MW306_220823	Normal	EM2216476	<0.43	<1.07	<0.43	<1.07	<1.07	<1.07	<1.07	<0.43	<0.43	<0.43	1.01	<0.43	<0.43	3,440	
			0937_QC102_220823	Field_D	EM2216476	<0.35	<0.88	<0.35	<0.88	<0.88	<0.88	<0.88	<0.35	<0.35	<0.35	0.54	<0.35	<0.35	3,500	
			0937_QC202_220823	Interlab_D	922647	0.09	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	0.22	0.19	<0.01	0.06	<0.01	0.05	2,526.5	1,904
		22 Nov 2022	0937_MW306_221122	Normal	EM2223510	<0.35	<0.88	<0.35	<0.88	<0.88	<0.88	<0.88	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	2,590	
			0937_QC201_221122	Interlab_D	945182	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	2,594.8	2,348
		16 Nov 2023	0937_MW306_231116	Normal	EM2320952	<0.04	<0.09	0.12	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,990	
MW310	Off-site	17 Oct 2015	35B	Normal												<0.1	<0.1			
		03 May 2016	OMW002	Normal	EM1604970	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77	
		02 Dec 2019	0937_OMW002_191202	Normal	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61	
			0937_QC208_191202	Interlab_D	692892	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.68	0.57
		03 Dec 2019	0937_QC108_191202	Field_D	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.60	
		16 Mar 2020	0937_MW310_20200316	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.67	
		18 Jun 2020	0937_MW310_20200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.74	
		12 Nov 2020	0937_MW310_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31	
		03 Feb 2021	0937_MW310_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59	
		28 Apr 2021	0937_MW310_20210428	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81	
		04 Aug 2021	0937_MW310_210804	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.78	
		17 Nov 2021	0937_MW310_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.88	
		22 Feb 2022	0937_MW310_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89	
		28 May 2022	0937_MW310_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.69	
		29 Aug 2022	0937_MW310_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.94	
		30 Nov 2022	0937_MW310_221130	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.76	
		21 Nov 2023	0937_MW310_231121	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.37	<0.05	<0.05	2.82	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW312	Off-site	17 Oct 2015	35A	Normal												<0.1	<0.1			
		03 May 2016	OMW003	Normal	EM1604970	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		02 Dec 2019	0937_OMW003_191202	Normal	EM1920780	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		16 Mar 2020	0937_MW312_20200316	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		18 Jun 2020	0937_MW312_20200618	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		12 Nov 2020	0937_MW312_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_MW312_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 Apr 2021	0937_MW312_20210428	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	0.28	
		04 Aug 2021	0937_MW312_210804	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.05	<0.05	<0.05	0.11	
		17 Nov 2021	0937_MW312_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	0.17	
		22 Feb 2022	0937_MW312_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	0.18	
		28 May 2022	0937_MW312_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Aug 2022	0937_MW312_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	0.49	
		30 Nov 2022	0937_MW312_221130	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	0.50	
		21 Nov 2023	0937_MW312_231121	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
MW315	On-site	18 Apr 2016	FF-MW3	Normal																
		17 Mar 2020	0937_MW315_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	744	
		16 Jun 2020	0937_MW315_200616	Normal	EM2010514	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	992	
		10 Nov 2020	0936_MW315_201110	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	454	
		28 Jan 2021	0937_MW315_210128	Normal	EM2101229	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	608	
		16 Nov 2023	0937_MW315_231116	Normal	EM2320952	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	370	
MW316	Off-site	17 Oct 2015	UDA	Normal												<0.1	<0.1			
		03 May 2016	OMW004	Normal	EM1604884	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Nov 2019	0937_OMW004_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		19 Mar 2020	0937_MW316_20200319	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		19 Jun 2020	0937_MW316_20200619	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		12 Nov 2020	0937_MW316_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		04 Feb 2021	0937_MW316_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 Apr 2021	0937_MW316_20210429	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		05 Aug 2021	0937_MW316_210805	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		18 Nov 2021	0937_MW316_211118	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		24 Feb 2022	0937_MW316_220224	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 May 2022	0937_MW316_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		29 Aug 2022	0937_MW316_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93	
		30 Nov 2022	0937_MW316_221130	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		20 Nov 2023	0937_MW316_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
MW318	Off-site	17 Oct 2015	UIA	Normal												<0.1	<0.1			
		03 May 2016	OMW005	Normal	EM1604970	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Nov 2019	0937_OMW005_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		19 Mar 2020	0937_MW318_20200319	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		19 Jun 2020	0937_MW318_20200619	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		12 Nov 2020	0937_MW318_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		04 Feb 2021	0937_MW318_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		27 Apr 2021	0937_MW318_20210427	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		05 Aug 2021	0937_MW318_210805	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2021	0937_MW318_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		22 Feb 2022	0937_MW318_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		28 May 2022	0937_MW318_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Aug 2022	0937_MW318_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		30 Nov 2022	0937_MW318_221130	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		20 Nov 2023	0937_MW318_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW319	Off-site	24 Oct 2017	P003_OEW005	Normal	EM1714625	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 Nov 2019	0937_MW319_191128	Normal	EM1920529-AC	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		19 Mar 2020	0937_MW319_20200319	Normal	EM2004707	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		18 Jun 2020	0937_MW319_20200618	Normal	EM2010382	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		12 Nov 2020	0937_MW319_201112	Normal	EM2020041	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Feb 2021	0937_MW319_210204	Normal	EM2101558	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Apr 2021	0937_MW319_20210429	Normal	EM2107856	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
			0937_QC112_20210429	Field_D	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		06 Aug 2021	0937_MW319_210806	Normal	EM2115478	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17	
		17 Nov 2021	0937_MW319_211118	Normal	EM2123001	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Feb 2022	0937_MW319_220223	Normal	EM2203197	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 May 2022	0937_MW319_220529	Normal	EM2210255	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		01 Sep 2022	0937_MW319_220901	Normal	EM2216994-AD	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC119_220901	Field_D	EM2216994-AD	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC219_220831	Interlab_D	922406	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	<0.01
		21 Nov 2023	0937_MW319_231121	Normal	EM2320912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
MW321	Off-site	17 Oct 2015	USA	Normal												<0.1	<0.1			
		04 May 2016	OMW006	Normal	EM1604970	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Nov 2019	0937_OMW006_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		19 Mar 2020	0937_MW321_20200319	Normal	EM2004708	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		19 Jun 2020	0937_MW321_20200619	Normal	EM2010387	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		12 Nov 2020	0937_MW321_201112	Normal	EM2020052	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		04 Feb 2021	0937_MW321_210203	Normal	EM2101560	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		27 Apr 2021	0937_MW321_20210427	Normal	EM2107805	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	0.11	
		05 Aug 2021	0937_MW321_210805	Normal	EM2115569	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	0.21	
		17 Nov 2021	0937_MW321_211117	Normal	EM2123079	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	0.08	
		22 Feb 2022	0937_MW321_220222	Normal	EM2203192	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		28 May 2022	0937_MW321_220528	Normal	EM2210253	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Aug 2022	0937_MW321_220829	Normal	EM2216985	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		30 Nov 2022	0937_MW321_221130	Normal	EM2223925	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		20 Nov 2023	0937_MW321_231120	Normal	EM2320919	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22	
MW323	On-site	01 Jun 2016	MW201D	Normal	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	76.1	
		27 Nov 2019	0937_MW201D_191127	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	91.9	
		18 Mar 2020	0937_MW323_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	227	
		17 Jun 2020	0937_MW323_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	80.4	
		11 Nov 2020	0937_MW323_201111	Normal	EM2020050	<0.04	<0.11	<0.04	<0.11	<0.11	<0.11	<0.11	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	57.2	
		03 Feb 2021	0937_MW323_210203	Normal	EM2101575	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	48.4	
		27 Apr 2021	0937_MW323_20210427	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	53.5	
		03 Aug 2021	0937_MW323_210803	Normal	EM2115476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.06	<0.05	<0.05	44.4	
			0937_QC122_210803	Field_D	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.6	
			0937_QC222_210803	Interlab_D	815502	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	61.95	38.7
		16 Nov 2021	0937_MW323_211116	Normal	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	141	
		16 Feb 2022	0937_MW323_220216	Normal	EM2202703	<0.02	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	237	
		25 May 2022	0937_MW323_220525	Normal	EM2210316	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	231	
		24 Aug 2022	0937_MW323_220824	Normal	EM2216476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	218	
		23 Nov 2022	0937_MW323_221123	Normal	EM2223510	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	193	
		15 Nov 2023	0937_MW323_231115	Normal	EM2320952	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	186	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW324	On-site	01 Jun 2016	MW202D	Normal	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.2	
		27 Nov 2019	0937_MW202D_191127	Normal	EM1920529															
		18 Mar 2020	0937_MW324_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	88.6	
		19 Jun 2020	0937_MW324_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	74.4	
		11 Nov 2020	0937_MW324_201111	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	58.7	
		03 Feb 2021	0937_MW324_210203	Normal	EM2101575	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	65.3	
		27 Apr 2021	0937_ MW324_20210427	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.6	
		03 Aug 2021	0937_MW324_210803	Normal	EM2115476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	114	
		16 Nov 2021	0937_MW324_211116	Normal	EM2123080	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	235	
		16 Feb 2022	0937_MW324_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	395	
		26 May 2022	0937_MW324_220526	Normal	EM2210316	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	354	
		24 Aug 2022	0937_MW324_220824	Normal	EM2216476	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	292	
			0937_QC108_220824	Field_D	EM2216476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	326	
			0937_QC208_220824	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	369.52	219.3
		23 Nov 2022	0937_MW324_221123	Normal	EM2223510	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	322	
		15 Nov 2023	0937_MW324_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	166	
MW325	On-site	18 Oct 2016	MW706	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	109	
		28 Oct 2016	MW706A	Normal	EM1612912	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	7.45	
		16 Jun 2020	0937_MW325_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.28	<0.05	<0.05	48.0	
		14 Jul 2021	0937_MW325_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	25.2	
		15 Nov 2021	0937_MW325_211115	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	19.6	
		18 Feb 2022	0937_MW325_220218	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.25	<0.05	<0.05	54	
		25 May 2022	0937_MW325_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	53.1	
		26 Aug 2022	0937_MW325_220826	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	24.0	
		24 Nov 2022	0937_MW325_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	36.5	
		16 Nov 2023	0937_MW325_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	33.2	
MW326	On-site	28 Oct 2016	MW727A	Normal	EM1612912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.42	
		20 Nov 2019	0937_MW727A_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.61	
		17 Mar 2020	0937_MW326_20200317	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.9	
		16 Jun 2020	0937_MW326_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	28.1	
		10 Nov 2020	0937_MW326_201110	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	51.6	
		28 Jan 2021	0937_MW326_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	28.7	
		26 Apr 2021	0937_ MW326_20210426	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	26.2	
		13 Jul 2021	0937_MW326_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	29.2	
			0937_QC100_210713	Field_D	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	34.0	
			0937_QC200_210713	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	32.88	24.29
		15 Nov 2021	0937_MW326_211115	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	29.0	
			0937_QC109_211115	Field_D	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.9	
			0937_QC209_211115	Interlab_D	842318	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	41.72	31.82
		15 Feb 2022	0937_MW326_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	51.4	
			0937_QC105_220215	Field_D	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	50.9	
			0937_QC205_220215	Interlab_D	864735	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	66.92	50
		25 May 2022	0937_MW326_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.2	
		23 Aug 2022	0937_MW326_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.4	
		24 Nov 2022	0937_MW326_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.4	
		16 Nov 2023	0937_MW326_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	22.6	

						Perfluorocarbons														
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW603	On-site	11 May 2016	MW603	Normal	EM1605366	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89	
			QCA106	Field_D	EM1605366	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93	
			QCB107	Interlab_D	500316											<0.05	<0.01			
		25 Nov 2019	0937_MW603_191125	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.00	
		16 Jun 2020	0937_MW603_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.70	
		03 Feb 2021	0937_MW603_210203	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49	
		03 Aug 2021	0937_MW603_210802	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.73	
		16 Feb 2022	0937_MW603_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.34	
		23 Aug 2022	0937_MW603_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.84	
		16 Nov 2023	0937_MW603_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.67	
			0937_MW603_231116_02	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.00	
MW607	On-site	19 Aug 2015	MW607	Normal	EM1513576											<0.1	<0.1			
		01 Jun 2016	MW607	Normal	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	55.3	
		20 Nov 2019	0937_MW607_191120	Normal	EM1920034	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	58.6	
		17 Mar 2020	0937_MW607_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	81.8	
		16 Jun 2020	0937_MW607_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	59.4	
		10 Nov 2020	0937_MW607_201110	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	48.5	
		28 Jan 2021	0937_MW607_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	40.4	
			0937_QC101_210128	Field_D	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	42.8	
			0937_QC201_210128	Interlab_D	770470	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	101.1	85.2
		26 Apr 2021	0937_ MW607 _20210426	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	40.8	
		13 Jul 2021	0937_MW607_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.0	
		15 Nov 2021	0937_MW607_211115	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.0	
		24 Feb 2022	0937_MW607_220224	Normal	EM2203247	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.7	
			0937_QC123_229224	Field_D	EM2203247	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	42.6	
			0937_QC223_220224	Interlab_D	866689	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	56.21	43.3
		25 May 2022	0937_MW607_220525	Normal	EM2210316	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	51.3	
		23 Aug 2022	0937_MW607_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	42.7	
		24 Nov 2022	0937_MW607_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	49.6	
		15 Nov 2023	0937_MW607_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.65	
			0937_QC108_231115	Field_D	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.53	
			0937_QC208_231115	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.9	2.29
MW609	On-site	11 May 2016	MW609	Normal	EM1605365	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.62	
		21 Nov 2019	0937_MW609_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.72	
		15 Jun 2020	0937_MW609_20200615	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.1	
		03 Feb 2021	0937_MW609_210203	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.28	
		13 Jul 2021	0937_MW609_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.39	
		15 Feb 2022	0937_MW609_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.46	
			0937_QC202_220215	Interlab_D	864735	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	9.04	4.77
		18 Feb 2022	0937_QC102_220215	Field_D	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.56	
		23 Aug 2022	0937_MW609_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.17	
		15 Nov 2023	0937_MW609_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.07	
			0937_QC109_231115	Field_D	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.20	
			0937_QC209_231115	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4.1	2.03

						Perfluorocarbons														
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW610	On-site	02 Jun 2016	MW610	Normal	EM1606511	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.77	
			QCA116	Field_D	EM1606511	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.61	
			QCB117	Interlab_D	503282	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01			
		20 Nov 2019	0937_MW610_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.6	
		16 Jun 2020	0937_MW610_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.9	
		28 Jan 2021	0937_MW610_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.9	
		13 Jul 2021	0937_MW610_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.3	
		15 Feb 2022	0937_MW610_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24	
		23 Aug 2022	0937_MW610_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.4	
MW612	On-site	31 May 2016	MW612	Normal	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.52	
		20 Nov 2019	0937_MW612_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.22	
		17 Mar 2020	0937_MW612_20200317	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.0	
		13 Nov 2020	0937_MW612_201110	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.71	
		28 Jan 2021	0937_MW612_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.92	
		22 Apr 2021	0937_ MW612_20210422	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.81	
		13 Jul 2021	0937_MW612_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.85	
		15 Nov 2021	0937_MW612_211115	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.47	
		16 Feb 2022	0937_MW612_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.06	
		25 May 2022	0937_MW612_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.46	
			0937_QC106_220525	Field_D	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.0	
			0937_QC206_220525	Interlab_D	893740	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	8.64	7.55
		23 Aug 2022	0937_MW612_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.02	
		24 Nov 2022	0937_MW612_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.83	
		16 Nov 2023	0937_MW612_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.86	
MW616	On-site	10 May 2016	MW616	Normal	EM1605278	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	419	
		29 Nov 2019	0937_MW616_191129	Normal	EM1920529	<0.05	<0.12	0.10	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	604	
		17 Mar 2020	0937_MW616_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,080	
		16 Jun 2020	0937_MW616_20200616	Normal	EM2010514	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	761	
		13 Nov 2020	0937_MW616_201110	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	468	
		28 Jan 2021	0937_MW616_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	465	
		28 Apr 2021	0937_ MW616_20210428	Normal	EM2107858	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	599	
		14 Jul 2021	0937_MW616_210714	Normal	EM2113872-AB	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	394	
		12 Nov 2021	0937_MW616_211112	Normal	EM2123080	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	784	
		16 Feb 2022	0937_MW616_220216	Normal	EM2202703	<0.05	<0.12	0.07	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,490	
		25 May 2022	0937_MW616_220525	Normal	EM2210316	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1,110	
		24 Aug 2022	0937_MW616_220824	Normal	EM2216476	<0.03	<0.09	0.09	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,300	
		23 Nov 2022	0937_MW616_221123	Normal	EM2223510	<0.03	<0.09	0.10	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,120	
		16 Nov 2023	0937_MW616_231116	Normal	EM2320952	<0.04	<0.08	0.12	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	823	
MW617	On-site	02 Jun 2016	MW617	Normal	EM1606511	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Nov 2019	0937_MW617_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		17 Jun 2020	0937_MW617_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.35	
		01 Feb 2021	0937_MW617_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.76	
		15 Jul 2021	0937_MW617_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22	
		16 Feb 2022	0937_MW617_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18	
		25 Aug 2022	0937_MW617_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61	
		15 Nov 2023	0937_MW617_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.71	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW622	On-site	12 May 2016	MW622	Normal	EM1605438	<0.05	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	392	
		29 Nov 2019	0937_MW622_191129	Normal	EM1920529	<0.05	<0.12	0.08	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	644	
		11 Nov 2020	0937_MW622_20111	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	618	
		04 Aug 2021	0937_MW622_210803	Normal	EM2115476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	798	
		16 Nov 2021	0937_MW622_211116	Normal	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	668	
		16 Feb 2022	0937_MW622_220216	Normal	EM2202703	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,270	
		26 May 2022	0937_MW622_220525	Normal	EM2210316	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	836	
		24 Aug 2022	0937_MW622_220824	Normal	EM2216476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	366	
		23 Nov 2022	0937_MW622_221123	Normal	EM2223510	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	692	
		15 Nov 2023	0937_MW622_231115	Normal	EM2320952	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	654	
			0937_QC101_231115	Field_D	EM2320952	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	600	
			0937_QC201_231115	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	501.5	377.2
MW623	On-site	02 Jun 2016	MW623	Normal	EM1606511	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.49	
		28 Nov 2019	0937_MW623_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.09	
		03 Aug 2021	0937_MW623_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.91	
			0937_QC121_210803	Field_D	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.08	
			0937_QC221_210803	Interlab_D	815502	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	9.89	7.44
		16 Feb 2022	0937_MW623_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.5	
		24 Aug 2022	0937_MW623_220824	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	8.38	
		15 Nov 2023	0937_MW623_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.26	
			0937_QC100_231115	Field_D	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.32	
			0937_QC200_231115	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	8.89	6.71
MW626	On-site	12 May 2016	MW626	Normal	EM1605438	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		27 Nov 2019	0937_MW626_191127	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68	
		17 Jun 2020	0937_MW626_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.11	
			0937_QC100_200617	Field_D	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.03	
			0937_QC200_200617	Interlab_D	726765	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.67	0.38
		03 Feb 2021	0937_MW626_210203	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.42	<0.05	<0.05	6.96	
		03 Aug 2021	0937_MW626_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.35	<0.05	<0.05	11.0	
		16 Feb 2022	0937_MW626_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.61	<0.05	<0.05	16.4	
		24 Aug 2022	0937_MW626_220824	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.53	<0.05	<0.05	7.41	
		15 Nov 2023	0937_MW626_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.22	<0.05	<0.05	13.1	
MW627	On-site	12 May 2016	MW627	Normal	EM1605438	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.4	
		28 Nov 2019	0937_MW627_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	66.6	
			0937_QC101_191128	Field_D	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.09	
			0937_QC201_191128	Interlab_D	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.14	
		17 Jun 2020	0937_MW627_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	56.0	
		11 Nov 2020	0937_MW627_201111	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	49.5	
		03 Feb 2021	0937_MW627_210203	Normal	EM2101575	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	41.2	
		27 Apr 2021	0937_ MW627 _20210427	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.8	
		03 Aug 2021	0937_MW627_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	54.8	
		16 Nov 2021	0937_MW627_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	68.8	
		16 Feb 2022	0937_MW627_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	128	
		25 May 2022	0937_QC213_220525	Interlab_D	893740	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	91.18	60.1
		26 May 2022	0937_MW627_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	87.1	
			0937_QC113_220525	Field_D	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	87.1	
		24 Aug 2022	0937_MW627_220824	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	72.1	
		23 Nov 2022	0937_MW627_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	57.9	
		15 Nov 2023	0937_MW627_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	59.1	

						Perfluorocarbons														
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW628	On-site	20 Aug 2015	MW628	Normal	EM1513576											<0.1	<0.1			
		01 Jun 2016	MW628	Normal	EM1606406	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	22.1	
		28 Nov 2019	0937_MW628_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.4	
		18 Mar 2020	0937_MW628_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.1	
		17 Jun 2020	0937_MW628_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.5	
		09 Nov 2020	0937_MW628_201109	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.0	
		29 Jan 2021	0937_MW628_210129	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.8	
		20 Apr 2021	0937_MW628_20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.6	
		04 Aug 2021	0937_MW628_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.0	
		16 Nov 2021	0937_MW628_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.5	
		17 Feb 2022	0937_MW628_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.2	
		31 May 2022	0937_MW628_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.7	
		25 Aug 2022	0937_MW628_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.2	
		23 Nov 2022	0937_MW628_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.4	
		16 Nov 2023	0937_MW628_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.2	
MW636	MW	20 Aug 2015	MW636	Normal	EM1513576											<0.1	<0.1			
		13 May 2016	MW636	Normal	EM1605449	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		14 Jul 2021	0937_MW636_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2021	0937_MW636_211117	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.09	
		21 Feb 2022	0937_MW636_220221	Normal	EM2203247	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.56	
			0937_QC121_220221	Field_D	EM2203247	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.67	
			0937_QC221_220221	Interlab_D	866689	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	3.16	1.85
		25 May 2022	0937_MW636_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.87	
		23 Aug 2022	0937_MW636_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.96	
			0937_QC104_220823	Field_D	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.99	
			0937_QC204_220823	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.31	1.39
		24 Nov 2022	0937_MW636_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.84	
		16 Nov 2023	0937_MW636_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.85	
MW701	On-site	18 Oct 2016	MW701	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		28 Nov 2019	0937_MW701_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Mar 2020	0937_MW701_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		17 Jun 2020	0937_MW701_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		11 Nov 2020	0937_MW701_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		01 Feb 2021	0947_MW701_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		20 Apr 2021	0937_MW701_20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		03 Aug 2021	0937_MW701_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14	
		16 Nov 2021	0937_MW701_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		16 Feb 2022	0937_MW701_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.06	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		26 May 2022	0937_MW701_220526	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		25 Aug 2022	0937_MW701_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54	
			0937_QC110_220825	Field_D	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54	
			0937_QC210_220825	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.64	0.45
		23 Nov 2022	0937_MW701_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		15 Nov 2023	0937_MW701_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW702	On-site	19 Oct 2016	MW702	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
																			17.2	
		28 Nov 2019	0937_MW702_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.2	
			0937_QC104_191128	Field_D	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.3	
			0937_QC204_191128	Interlab_D	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.7	
		02 Dec 2019	0937_MW702_191202	Normal	EM1920780															
		18 Mar 2020	0937_MW702_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	31.8	
		17 Jun 2020	0937_MW702_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	20.3	
		09 Nov 2020	0937_MW702_201109	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	11.6	
		29 Jan 2021	0937_MW702_210129	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.3	
		20 Apr 2021	0937_MW702_20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.0	
		15 Jul 2021	0937_MW702_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.8	
		16 Nov 2021	0937_MW702_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.0	
		17 Feb 2022	0937_MW702_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.5	
		31 May 2022	0937_MW702_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.0	
		25 Aug 2022	0937_MW702_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.1	
		23 Nov 2022	0937_MW702_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.8	
		15 Nov 2023	0937_MW702_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.5	
MW704	On-site	18 Oct 2016	MW704	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	676	
		27 Nov 2019	0937_MW704_191127	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	123	
		18 Mar 2020	0937_MW704_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	139	
		17 Jun 2020	0937_MW704_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	51.7	
		11 Nov 2020	0937_MW704_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.22	
		03 Feb 2021	0937_MW704_210203	Normal	EM2101575	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	143	
		28 Apr 2021	0937_MW704_20210428	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.6	
		03 Aug 2021	0937_MW704_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.2	
		16 Nov 2021	0937_MW704_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.3	
		16 Feb 2022	0937_MW704_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	74	
		25 May 2022	0937_MW704_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	126	
		24 Aug 2022	0937_MW704_220824	Normal	EM2216476	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	112	
		23 Nov 2022	0937_MW704_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	114	
		15 Nov 2023	0937_MW704_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	108	
MW705	On-site	18 Oct 2016	MW705	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12	
		27 Nov 2019	0937_MW705_191127	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
		18 Mar 2020	0937_MW705_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	2.78	
		17 Jun 2020	0937_MW705_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62	
		11 Nov 2020	0937_MW705_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		03 Feb 2021	0937_MW705_210203	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.46	
		27 Apr 2021	0937_MW705_20210428	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
		03 Aug 2021	0937_MW705_210803	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24	
		16 Nov 2021	0937_MW705_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59	
		16 Feb 2022	0937_MW705_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	1.65	
		25 May 2022	0937_MW705_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.19	<0.05	<0.05	1.65	
		24 Aug 2022	0937_MW705_220824	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.19	<0.05	<0.05	1.69	
		23 Nov 2022	0937_MW705_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	1.55	
		15 Nov 2023	0937_MW705_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.09	
			0937_QC102_231115	Field_D	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.36	
			0937_QC202_231115	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.52	1.41

						Perfluorocarbons													
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW707	On-site	19 Oct 2016	MW707	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.57	
			QCA346	Field_D	EM1612530															
			QCB353	Interlab_D	520912															
		28 Nov 2019	0937_MW707_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.9	
		20 Mar 2020	0937_MW707_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.3	
		17 Jun 2020	0937_MW707_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.87	
		11 Nov 2020	0937_MW707_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.56	
		01 Feb 2021	0937_MW707_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.02	
		20 Apr 2021	0937_ MW707 _20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.59	
		04 Aug 2021	0937_MW707_210804	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.30	
		16 Nov 2021	0937_MW707_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.21	
		16 Feb 2022	0937_MW707_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.86	
		31 May 2022	0937_MW707_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.01	
		25 Aug 2022	0937_MW707_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.68	
			0937_QC112_220825	Field_D	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.77	
			0937_QC212_220825	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	5.55	4.39
		29 Nov 2022	0937_MW707_221129	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.67	
		15 Nov 2023	0937_MW707_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.12	
MW708	On-site	18 Oct 2016	MW708	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.5	
		29 Nov 2019	0937_MW708_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.86	<0.05	<0.05	6.59	
		18 Mar 2020	0937_MW708_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.15	
		17 Jun 2020	0937_MW708_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.34	
		11 Nov 2020	0937_MW708_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.03	
		01 Feb 2021	0937_MW708_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.98	
		20 Apr 2021	0937_ MW708 _20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.78	
		04 Aug 2021	0937_MW708_210804	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.50	
		16 Nov 2021	0937_MW708_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.35	
		17 Feb 2022	0937_MW708_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.61	
		31 May 2022	0937_MW708_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.79	
		25 Aug 2022	0937_MW708_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.95	
		23 Nov 2022	0937_MW708_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.06	
		15 Nov 2023	0937_MW708_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.18	
MW709	On-site	19 Oct 2016	MW709	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.9	
		28 Nov 2019	0937_MW709_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.4	
		18 Mar 2020	0937_MW709_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	25.9	
		17 Jun 2020	0937_MW709_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.1	
		11 Nov 2020	0937_MW709_201111	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	16.6	
		01 Feb 2021	0937_MW709_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.0	
		27 Apr 2021	0937_ MW709 _20210427	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.0	
		15 Jul 2021	0937_MW709_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.6	
			0937_QC119_210715	Field_D	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.4	
			0937_QC219_210715	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	23.2	16.06
		16 Nov 2021	0937_MW709_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.4	
		16 Feb 2022	0937_MW709_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.9	
		31 May 2022	0937_MW709_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	21.3	
		25 Aug 2022	0937_MW709_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.9	
		23 Nov 2022	0937_MW709_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.0	
		15 Nov 2023	0937_MW709_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.2	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW711	On-site	19 Oct 2016	MW711	Normal	EM1612530	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
		29 Nov 2019	0937_MW711_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		18 Mar 2020	0937_MW711_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		17 Jun 2020	0937_MW711_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		11 Nov 2020	0937_MW711_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		29 Jan 2021	0937_MW711_210129	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		28 Apr 2021	0937_ MW711_20210428	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.72	
		04 Aug 2021	0937_MW711_210804	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		16 Nov 2021	0937_MW711_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16	
		18 Feb 2022	0937_MW711_220218	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31	
		25 May 2022	0937_MW711_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		24 Aug 2022	0937_MW711_220824	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		29 Nov 2022	0937_MW711_221129	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20	
		20 Nov 2023	0937_MW711_231120	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
MW712	On-site	29 Nov 2019	0937_MW712_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		02 Dec 2019	0937_MW712_191202	Normal	EM1920780															
		11 Nov 2020	0937_MW712_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		01 Feb 2021	0937_MW712_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		21 Apr 2021	0937_ MW712_20210421	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		15 Jul 2021	0937_MW712_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		16 Nov 2021	0937_MW712_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		17 Feb 2022	0937_MW712_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		31 May 2022	0937_MW712_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		25 Aug 2022	0937_MW712_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		29 Nov 2022	0937_MW712_221129	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		15 Nov 2023	0937_MW712_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
MW714	On-site	20 Oct 2016	MW714	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93	
		29 Nov 2019	0937_MW714_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		18 Mar 2020	0937_MW714_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		17 Jun 2020	0937_MW714_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
			0937_QC103_200617	Field_D	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
			0937_QC203_200617	Interlab_D	726765	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	0.05
		09 Nov 2020	0937_MW714_201109	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07	
		27 Jan 2021	0937_MW714_200127	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		20 Apr 2021	0937_ MW714_20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		15 Jul 2021	0937_MW714_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		16 Nov 2021	0937_MW714_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		18 Feb 2022	0937_MW714_220218	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		31 May 2022	0937_MW714_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10	
		29 Aug 2022	0937_MW714_220829	Normal	EM2217000	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		29 Nov 2022	0937_MW714_221129	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		15 Nov 2023	0937_MW714_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW715	On-site	20 Oct 2016	MW715	Normal	EM1612530	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	1.34	0.25	<0.05	2.36	
		29 Nov 2019	0937_MW715_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		19 Mar 2020	0937_MW715_20200319	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		16 Jun 2020	0937_MW715_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		11 Nov 2020	0937_MW715_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
			0937_QC109_201111	Field_D	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC209_201111	Interlab_D	757178	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	<0.01
		01 Feb 2021	0937_MW715_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		19 Apr 2021	0937_ MW715 _20210419	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		03 Aug 2021	0937_MW715_210802	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		22 Nov 2021	0937_MW715_211122	Normal	EM2123477	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11	
		15 Feb 2022	0937_MW715_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16	
			0937_QC100_220215	Field_D	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
			0937_QC200_220215	Interlab_D	864735	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.2	0.19
		30 May 2022	0937_MW715_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		26 Aug 2022	0937_MW715_220826	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		29 Nov 2022	0937_MW715_221128	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		20 Nov 2023	0937_MW715_231120	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17	
MW716	On-site	20 Oct 2016	MW716	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.6	
		29 Nov 2019	0937_MW716_191129	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
		19 Mar 2020	0937_MW716_20200316	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		16 Jun 2020	0937_MW716_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		11 Nov 2020	0937_MW716_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		27 Jan 2021	0937_MW716_210127	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10	
		19 Apr 2021	0937_ MW716 _20210419	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		03 Aug 2021	0937_MW716_210802	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2021	0937_MW716_211117	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		15 Feb 2022	0937_MW716_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		31 May 2022	0937_MW716_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		26 Aug 2022	0937_MW716_220826	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		29 Nov 2022	0937_MW716_221128	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		20 Nov 2023	0937_MW716_231120	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11	
MW719	On-site	20 Oct 2016	MW719	Normal	EM1612530	<0.02	<0.05	0.17	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	12,000	
		25 Nov 2019	0937_MW719_191125	Normal	EM1920529	<0.50	<1.25	<0.50	<1.25	<1.25	<1.25	<1.25	<0.50	<0.50	<0.50	3.70	<0.50	<0.50	13,800	
		17 Mar 2020	0937_MW719_20200317	Normal	EM2004711	<5.00	<12.5	<5.00	<12.5	<12.5	<12.5	<12.5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	16,200	
		16 Jun 2020	0937_MW719_200616	Normal	EM2010514	<0.02	<0.05	0.36	<0.05	<0.05	<0.05	<0.05	<0.02	0.02	<0.05	4.30	0.20	<0.05	12,500	
		10 Nov 2020	0937_MW719_201110	Normal	EM2020050	<0.04	<0.09	0.30	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	4.37	0.16	<0.05	11,400	
		28 Jan 2021	0937_MW719_210128	Normal	EM2101229	<0.04	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	4.03	0.17	<0.05	10,500	
		22 Apr 2021	0937_ MW719 _20210422	Normal	EM2107085	<0.38	<0.95	<0.38	<0.95	<0.95	<0.95	<0.95	<0.38	<0.38	<0.38	2.70	<0.38	<0.38	8,710	
		13 Jul 2021	0937_MW719_210713	Normal	EM2113872-AB	<0.04	<0.09	0.31	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	3.13	<0.05	<0.05	5,990	
		15 Nov 2021	0937_MW719_211115	Normal	EM2123080	<0.04	<0.09	0.18	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	4.85	0.07	<0.05	10,200	
		22 Feb 2022	0937_MW719_220222	Normal	EM2203247	<0.35	<0.88	<0.35	<0.88	<0.88	<0.88	<0.88	<0.35	<0.35	<0.35	3.61	<0.35	<0.35	11,200	
			0937_QC222_220222	Interlab_D	866689	<0.01	<0.01	0.23	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	3.1	0.08	<0.01	14,498.19	10,850
		26 May 2022	0937_MW719_220526	Normal	EM2210316	<0.02	<0.05	0.25	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.74	0.14	<0.05	2,870	
		26 Aug 2022	0937_MW719_220826	Normal	EM2216476	<0.34	<0.85	<0.34	<0.85	<0.85	<0.85	<0.85	<0.34	<0.34	<0.34	2.24	<0.34	<0.34	4,400	
		24 Nov 2022	0937_MW719_221124	Normal	EM2223510	<0.34	<0.86	<0.34	<0.86	<0.86	<0.86	<0.86	<0.34	<0.34	<0.34	2.68	<0.34	<0.34	6,600	
		17 Nov 2023	0937_MW719_231117	Normal	EM2320952	<0.36	<0.89	0.38	<0.89	<0.89	<0.89	<0.89	<0.36	<0.36	<0.36	4.33	<0.36	<0.36	8,450	

						Perfluorocarbons														
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW720	On-site	20 Oct 2016	MW720	Normal	EM1612530	<0.02	<0.05	0.22	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3,100	
		25 Nov 2019	0937_MW720_191125	Normal	EM1920529	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	943	
		20 Mar 2020	0937_MW720_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	932	
		16 Jun 2020	0937_MW720_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	916	
		10 Nov 2020	0937_MW720_201110	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	779	
		28 Jan 2021	0937_MW720_210128	Normal	EM2101229	<0.04	<0.10	0.13	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	831	
		22 Apr 2021	0937_ MW720 _20210422	Normal	EM2107085	<0.04	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	771	
		13 Jul 2021	0937_MW720_210713	Normal	EM2113872-AB	<0.03	<0.09	0.39	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	0.09	<0.05	<0.05	8,330	
		16 Nov 2021	0937_MW720_211116	Normal	EM2123080	<0.04	<0.09	0.14	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	3,140	
		17 Feb 2022	0937_MW720_220217	Normal	EM2202703	<0.02	<0.05	0.41	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	9,450	
		26 May 2022	0937_MW720_220526	Normal	EM2210316	<0.02	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2,230	
		25 Aug 2022	0937_MW720_220825	Normal	EM2216476	<0.03	<0.08	0.05	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,540	
		24 Nov 2022	0937_MW720_221124	Normal	EM2223510	<0.03	<0.08	0.05	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	1,340	
		17 Nov 2023	0937_MW720_231117	Normal	EM2320952	<0.04	<0.09	0.08	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	1,880	
MW724	On-site	18 Oct 2016	MW724	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.84	
		20 Nov 2019	0937_MW724_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.87	
		16 Jun 2020	0937_MW724_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.17	
		28 Jan 2021	0937_MW724_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.69	
		13 Jul 2021	0937_MW724_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.86	
		15 Feb 2022	0937_MW724_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	18	
		23 Aug 2022	0937_MW724_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.88	
		16 Nov 2023	0937_MW724_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.1	
MW725	On-site	17 Oct 2016	MW725	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	117	
		20 Nov 2019	0937_MW725_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	28.2	
		17 Mar 2020	0937_MW725_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	38.0	
		16 Jun 2020	0937_MW725_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	36.6	
		10 Nov 2020	0937_MW725_201110	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	28.9	
			0937_QC101_201110	Field_D	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.2	
			0937_QC201_201110	Interlab_D	757178	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	39.91	29
		28 Jan 2021	0937_MW725_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	25.1	
			0937_QC100_210128	Field_D	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.1	
			0937_QC200_210128	Interlab_D	770470	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.12	<0.01	<0.01	44.38	31
		22 Apr 2021	0937_ MW725 _20210422	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.8	
		13 Jul 2021	0937_MW725_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	27.9	
		12 Nov 2021	0937_MW725_211112	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	30.5	
		15 Feb 2022	0937_MW725_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	36.5	
			0937_QC107_220215	Field_D	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.3	
			0937_QC207_220215	Interlab_D	864735	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	38.67	26.5
		26 May 2022	0937_MW725_2205246	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	32.8	
		23 Aug 2022	0937_MW725_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.7	
		22 Nov 2022	0937_MW725_221122	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	24.1	
		15 Nov 2023	0937_MW725_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.7	

						Perfluorocarbons													
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW726	On-site	18 Oct 2016	MW726	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	143	
		20 Nov 2019	0937_MW726_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	175	
		17 Mar 2020	0937_MW726_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	247	
		16 Jun 2020	0937_MW726_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	193	
		10 Nov 2020	0937_MW726_201110	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	105	
		28 Jan 2021	0937_MW726_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	189	
		26 Apr 2021	0937_ MW726 _20210426	Normal	EM2107858	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	116	
		13 Jul 2021	0937_MW726_210713	Normal	EM2113872-AB	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	105	
			0937_QC102_210713	Field_D	EM2113872-AB	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	117	
			0937_QC202_210713	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	195.51	93.1
		15 Nov 2021	0937_MW726_211115	Normal	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	188	
		15 Feb 2022	0937_MW726_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	387	
		25 May 2022	0937_MW726_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	353	
			0937_QC104_220525	Field_D	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	341	
			0937_QC204_220525	Interlab_D	893740	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	250.91	120
		23 Aug 2022	0937_MW726_220823	Normal	EM2216476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	268	
		24 Nov 2022	0937_MW726_221124	Normal	EM2223510	<0.03	<0.08	<0.03	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	240	
		16 Nov 2023	0937_MW726_231116	Normal	EM2320952	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	227	
MW728	On-site	17 Oct 2016	MW728	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.6	
		20 Nov 2019	0937_MW728_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.88	
		16 Jun 2020	0937_MW728_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.36	
		28 Jan 2021	0937_MW728_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.02	
		13 Jul 2021	0937_MW728_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.80	
			0937_QC104_210713	Field_D	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.89	
			0937_QC204_210713	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.48	1.84
		15 Feb 2022	0937_MW728_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.89	
		23 Aug 2022	0937_MW728_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.20	
			0937_QC100_220823	Field_D	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.12	
			0937_QC200_220823	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.68	1.84
		15 Nov 2023	0937_MW728_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.42	
MW729	On-site	18 Oct 2016	MW729	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		25 Nov 2019	0937_MW729_191125	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.19	
		17 Mar 2020	0937_MW729_20200217	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62	
			0937_QC100_20200317	Field_D	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32	
			0937_QC200_20200317	Interlab_D	711148	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.29	0.23
		16 Jun 2020	0937_MW729_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29	
		10 Nov 2020	0937_MW729_201110	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.79	
		28 Jan 2021	0937_MW729_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59	
		28 Apr 2021	0937_MW729_20210428	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.91	
		14 Jul 2021	0937_MW729_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.18	
		16 Nov 2021	0937_MW729_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.2	
		24 Feb 2022	0937_MW729_220224	Normal	EM2203247	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	11.1	
		26 May 2022	0937_MW729_220526	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.9	
		25 Aug 2022	0937_MW729_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.91	
		24 Nov 2022	0937_MW729_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.7	
		17 Nov 2023	0937_MW729_231117	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	15.6	

						Perfluorocarbons													
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW730	On-site	19 Oct 2016	MW730	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.64	
			QCA349	Field_D	EM1612530															
			QCB356	Interlab_D	520912															
		20 Nov 2019	0937_MW730_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.07	
		18 Jun 2020	0937_MW730_200618	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.32	
		12 Nov 2020	0937_MW730_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.52	
		29 Jan 2021	0937_MW730_210129	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.80	
		27 Apr 2021	0937_MW730_20210426	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.92	
		15 Jul 2021	0937_MW730_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.22	
		16 Nov 2021	0937_MW730_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.14	
		17 Feb 2022	0937_MW730_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.56	
		26 May 2022	0937_MW730_220526	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.76	
		25 Aug 2022	0937_MW730_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.40	
		24 Nov 2022	0937_MW730_221124	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.97	
		17 Nov 2023	0937_MW730_231117	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.48	
MW733	On-site	18 Oct 2016	MW733	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.38	
			QCA351	Field_D	EM1612450															
			QCB358	Interlab_D	520486															
		20 Nov 2019	0937_MW733_191120	Normal	EM1920034	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.53	
		17 Mar 2020	0937_MW733_20200317	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.57	
		16 Jun 2020	0937_MW733_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.51	
		10 Nov 2020	0936_QC100_201110	Field_D	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.85	
			0937_MW733_201110	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.92	
			0937_QC200_01110	Interlab_D	757178	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.5	1.31
		28 Jan 2021	0937_MW733_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.87	
			0937_QC102_210128	Field_D	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.02	
			0937_QC202_210128	Interlab_D	770470	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.54	1.4
		26 Apr 2021	0937_MW733_20210426	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.89	
		13 Jul 2021	0937_QC206_210713	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	3.77	1.75
		14 Jul 2021	0947_QC106_210714	Field_D	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.57	
		15 Jul 2021	0937_MW733_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.45	
		12 Nov 2021	0937_MW733_211112	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.09	
		15 Feb 2022	0937_MW733_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.59	
			0937_QC104_220215	Field_D	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.39	
			0937_QC204_220215	Interlab_D	864735	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4.11	2.22
		25 May 2022	0937_MW733_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.04	
		23 Aug 2022	0937_MW733_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.24	
		22 Nov 2022	0937_QC202_221122	Interlab_D	945182	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	3.8	1.92
		23 Nov 2022	0937_MW733_221122	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.05	
		23 Nov 2023	0937_MW733_231123	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.15	

						Perfluorocarbons													
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW734	On-site	18 Oct 2016	MW734	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	289	
		20 Nov 2019	0937_MW734_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	215	
		17 Mar 2020	0937_MW734_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	237	
		16 Jun 2020	0937_MW734_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	215	
		10 Nov 2020	0937_MW734_201110	Normal	EM2020050	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	201	
		28 Jan 2021	0937_MW734_210128	Normal	EM2101229	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	134	
			0937_QC104_210128	Field_D	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	147	
			0937_QC204_210128	Interlab_D	770470	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	228.79	204.5
		26 Apr 2021	0937_ MW734 _2021042	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	101	
		13 Jul 2021	0937_MW734_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	151	
			0937_QC103_210713	Field_D	EM2113872-AB	<0.04	<0.11	<0.04	<0.11	<0.11	<0.11	<0.11	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	140	
			0937_QC203_210713	Interlab_D	811260	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	228.77	216
		15 Nov 2021	0937_MW734_211115	Normal	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	280	
			0937_QC107_211115	Field_D	EM2123080	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	306	
			0937_QC207_211115	Interlab_D	842318	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	340.88	327.87
		15 Feb 2022	0937_MW734_220215	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	425	
		25 May 2022	0937_MW734_220524	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	525	
		23 Aug 2022	0937_MW734_220823	Normal	EM2216476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	256	
			0937_QC101_220823	Field_D	EM2216476	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	252	
			0937_QC201_220823	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	230.91	220.63
		22 Nov 2022	0937_MW734_221122	Normal	EM2223510	<0.03	<0.08	<0.03	<0.08	<0.08	<0.08	<0.08	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	235	
		25 Nov 2022	0937_QC200_221125	Interlab_D	945182	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	346.45	337.61
		16 Nov 2023	0937_MW734_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	184	
			0937_QC110_231116	Field_D	EM2320952	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	192	
			0937_QC210_231116	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	221.44	215.58
MW735	On-site	18 Oct 2016	MW735	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.25	
		17 Jun 2020	0937_MW735_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77	
		11 Nov 2020	0937_MW735_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17	
		01 Feb 2021	0937_MW735_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10	
		20 Apr 2021	0937 _MW735 _20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		04 Aug 2021	0937_MW735_210804	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		16 Nov 2021	0937_MW735_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		16 Feb 2022	0937_MW735_220216	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.3	
		26 May 2022	0937_MW735_220526	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		25 Aug 2022	0937_MW735_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Nov 2022	0937_MW735_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC208_221123	Interlab_D	945182	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	0.03
		15 Nov 2023	0937_MW735_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14	
MW737	On-site	19 Oct 2016	MW737	Normal	EM1612530	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		20 Nov 2019	0937_MW737_191120	Normal	EM1920039	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.37	
		16 Jun 2020	0937_MW737_200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		28 Jan 2021	0937_MW737_210128	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		13 Jul 2021	0937_MW737_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		15 Nov 2021	0937_MW737_211115	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61	
			0937_QC108_211115	Field_D	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
			0937_QC208_211115	Interlab_D	842318	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.49	0.46
		17 Feb 2022	0937_MW737_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81	
		25 May 2022	0937_MW737_220525	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.17	<0.05	<0.05	1.42	
			0937_QC101_220525	Field_D	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	1.49	
			0937_QC201_220525	Interlab_D	893740	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.10	<0.01	<0.01	1.14	0.94
		23 Aug 2022	0937_MW737_220823	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	1.33	
		23 Nov 2022	0937_MW737_221122	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.28	
		16 Nov 2023	0937_MW737_231116	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.50	

						Perfluorocarbons													
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW738	On-site	18 Oct 2016	MW738	Normal	EM1612450	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
																			683	
		25 Nov 2019	0937_MW738_191125	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	88.1	
		17 Mar 2020	0937_MW738_20200317	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	86.7	
		16 Jun 2020	0937_MW738_20200616	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	76.8	
		10 Nov 2020	0937_MW738_201110	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	46.4	
		28 Jan 2021	0937_MW738_210128	Normal	EM2101229	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	54.6	
		28 Apr 2021	0937_MW738_20210428	Normal	EM2107858	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	44.1	
		14 Jul 2021	0937_MW738_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	84.9	
		16 Nov 2021	0937_MW738_211116	Normal	EM2123080	<0.04	<0.10	<0.04	<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	84.4	
		18 Feb 2022	0937_MW738_220218	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	189	
		26 May 2022	0937_MW738_220526	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	427	
		25 Aug 2022	0937_MW738_220825	Normal	EM2216476	<0.03	<0.09	<0.03	<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	346	
		24 Nov 2022	0937_MW738_221124	Normal	EM2223510	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	253	
		17 Nov 2023	0937_MW738_231117	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	325	
MW739	On-site	28 Oct 2016	MW739	Normal	EM1612912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.49	
		28 Nov 2019	0937_MW739_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.73	
		02 Dec 2019	0937_MW739_191202	Normal	EM1920780															
		18 Mar 2020	0937_MW739_20200318	Normal	EM2004711	<0.05	<0.12	<0.05	<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.4	
		17 Jun 2020	0937_MW739_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.7	
		09 Nov 2020	0937_MW739_201109	Normal	EM2020050	<0.04	<0.09	<0.04	<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	14.5	
		29 Jan 2021	0937_MW739_210129	Normal	EM2101229	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.9	
		20 Apr 2021	0937_MW739_20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.0	
		15 Jul 2021	0937_MW739_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.2	
		17 Nov 2021	0937_MW739_211117	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.5	
		17 Feb 2022	0937_MW739_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	25.3	
		31 May 2022	0937_MW739_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	31.2	
		25 Aug 2022	0937_MW739_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.6	
		23 Nov 2022	0937_MW739_221123	Normal	EM2223510	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.1	
			0937_QC207_221123	Interlab_D	945182	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	19.67	13.33
		15 Nov 2023	0937_MW739_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	17.3	
MW740	On-site	28 Oct 2016	MW740	Normal	EM1612912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.53	
		28 Nov 2019	0937_MW740_191128	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.74	<0.05	<0.05	9.98	
		18 Mar 2020	0937_MW740_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.57	<0.05	<0.05	12.8	
		17 Jun 2020	0937_MW740_20200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.50	<0.05	<0.05	13.2	
		11 Nov 2020	0937_MW740_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.03	<0.05	<0.05	8.61	
		01 Feb 2021	0937_MW740_210101	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.88	<0.05	<0.05	7.80	
		20 Apr 2021	0937_MW740_20210420	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.59	<0.05	<0.05	6.30	
		05 Aug 2021	0937_MW740_210805	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.60	<0.05	<0.05	7.10	
		16 Nov 2021	0937_MW740_211116	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.71	<0.05	<0.05	6.91	
		17 Feb 2022	0937_MW740_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.74	<0.05	<0.05	8.05	
		31 May 2022	0937_MW740_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.11	<0.05	<0.05	8.62	
		25 Aug 2022	0937_MW740_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.74	<0.05	<0.05	6.90	
		29 Nov 2022	0937_MW740_221129	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.80	<0.05	<0.05	5.91	
		15 Nov 2023	0937_MW740_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.61	<0.05	<0.05	6.22	
			0937_QC103_231115	Field_D	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.52	<0.05	<0.05	6.51	
			0937_QC203_231115	Interlab_D	1048259	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.50	<0.01	<0.01	6.22	4.5

						Perfluorocarbons														
						Perfluorotrideca noic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
MW741	On-site	28 Oct 2016	MW741	Normal	EM1612912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			QCA387	Field_D	EM1612912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			QCB388	Interlab_D	521623	<0.01	<0.01	<0.05	<0.05		<0.05				<0.01	<0.05	<0.01			
		27 Nov 2019	0937_MW741_191127	Normal	EM1920529	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Mar 2020	0937_MW741_20200318	Normal	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC101_20200318	Field_D	EM2004711	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC201_20200318	Interlab_D	711148	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	0.03
		17 Jun 2020	0937_MW741_200617	Normal	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC106_200617	Field_D	EM2010514	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC206_200617	Interlab_D	726765	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	<0.01
		11 Nov 2020	0937_MW741_201111	Normal	EM2020050	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		01 Feb 2021	0937_MW741_210201	Normal	EM2101575	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		21 Apr 2021	0937_MW741_20210421	Normal	EM2107085	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Aug 2021	0937_MW741_210804	Normal	EM2115476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2021	0937_MW741_211117	Normal	EM2123080	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Feb 2022	0937_MW741_220217	Normal	EM2202703	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		31 May 2022	0937_MW741_220530	Normal	EM2210316	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		25 Aug 2022	0937_MW741_220825	Normal	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
			0937_QC111_220825	Field_D	EM2216476	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22	
			0937_QC211_220825	Interlab_D	922647	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.39	0.37
		29 Nov 2022	0937_MW741_221129	Normal	EM2223972	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54	
		15 Nov 2023	0937_MW741_231115	Normal	EM2320952	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20	
POT027	Off-site	31 May 2016	P001-OEW001	Normal	EM1606389															
		07 Jun 2017	P001_OEW001	Normal	EM1707601	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_POT027_191103	Normal	EM1920781	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		19 Jun 2020	0937_POT027_200619	Normal	EM2010389	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Feb 2021	0937_POT027_210204	Normal	EM2101561	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Feb 2022	0937_POT027_220223	Normal	EM2203196	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Aug 2022	0937_POT027_220830	Normal	EM2216995	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Nov 2023	0937_POT027_231123	Normal	EM2320911	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
POT034	Off-site	07 Jun 2017	P028_OEW001	Normal	EM1707594	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_POT034_191203	Normal	EM1920782	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		18 Jun 2020	0937_POT034_200618	Normal	EM2010388	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_POT034_210103	Normal	EM2101567	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		05 Aug 2021	0937_POT034_210805	Normal	EM2115487	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		24 Feb 2022	0937_POT034_220224	Normal	EM2203202	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Aug 2022	0937_POT034_220830	Normal	EM2216990	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		16 Nov 2023	0937_POT034_231116	Normal	EM2320916	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
POT042	Off-site	01 Jun 2016	P003-OEW002	Normal	EM1606482															
		08 Jun 2017	P003_OEW002	Normal	EM1707600	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		03 Dec 2019	0937_POT042_191203	Normal	EM1920790	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		19 Mar 2020	0937_POT042_20200319	Normal	EM2004707	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		18 Jun 2020	0937_POT042_20200618	Normal	EM2010382	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		12 Nov 2020	0937_POT042_201112	Normal	EM2020041	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		03 Feb 2021	0937_POT042_210203	Normal	EM2101558	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		29 Apr 2021	0937_POT042_20210429	Normal	EM2107856	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		05 Aug 2021	0937_POT042_210805	Normal	EM2115478	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
		18 Nov 2021	0937_POT042_211118	Normal	EM2123001	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		22 Feb 2022	0937_POT042_220222	Normal	EM2203197	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		30 May 2022	0937_POT042_220529	Normal	EM2210255	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		31 Aug 2022	0937_POT042_220831	Normal	EM2216994-AD	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		21 Nov 2023	0937_POT042_231121	Normal	EM2320912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.46	

						Perfluorocarbons														
						Perfluorotrideconoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.01	0.01	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																				
PFAS NEMP 2.0 Table 1 Health Recreational Water																				
PFAS NEMP 2.0 Table 5 Freshwater 99%																				
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
POT050	Off-site	27 Jun 2016	P004-OEW003	Normal	EM1607524															
		07 Jun 2017	P004_OEW003	Normal	EM1707598	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_POT050_191203	Normal	EM1920783	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Jun 2020	0937_POT050_200618	Normal	EM2010383	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_POT050_210203	Normal	EM2101566	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		04 Aug 2021	0937_POT050_210804	Normal	EM2115482	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Feb 2022	0937_POT050_220223	Normal	EM2203198	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Aug 2022	0937_POT050_220830	Normal	EM2216993	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		16 Nov 2023	0937_POT050_231116	Normal	EM2320913	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
POT051	Off-site	01 Jun 2016	P003-OEW004	Normal	EM1606482															
		08 Jun 2017	P003_OEW004	Normal	EM1707600	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Dec 2019	0937_POT051_191203	Normal	EM1920790	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		19 Mar 2020	0937_POT051_20200319	Normal	EM2004707	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Jun 2020	0937_POT051_200618	Normal	EM2010382	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		12 Nov 2020	0937_POT051_201112	Normal	EM2020041	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_POT051_210203	Normal	EM2101558	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		29 Apr 2021	0937_POT051_20210429	Normal	EM2107856	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		05 Aug 2021	0937_POT051_210806	Normal	EM2115478	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		18 Nov 2021	0937_POT051_211118	Normal	EM2123001	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Feb 2022	0937_POT051_220223	Normal	EM2203197	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		31 Aug 2022	0937_POT051_220831	Normal	EM2216994-AD	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		21 Nov 2023	0937_POT051_231121	Normal	EM2320912	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39	

Notes

Denotes first-time detection above LOR in latest monitoring round

Denotes new exceedance of human health drinking water screening criteria in latest monitoring round

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW001	Off-Site	01 Jun 2016	OSW001	Normal	EM1606490	0.09	<0.01	**0.19**	0.03	0.03	0.1	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Oct 2016	OSW001	Normal	EM1612997	2	0.003	**2.227**	0.02	0.016	0.227	0.018	<0.002	<0.01	0.003	0.024	0.003	<0.002	<0.002	<0.002	<0.002
								2.23													
		03 Dec 2019	0937_SW001_191203	Normal	EM1920790	0.13	<0.01	**0.23**	0.02	0.02	0.10	<0.02	<0.02	<0.1	0.04	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW001_20200320	Normal	EM2004707	0.89	0.01	**1.11**	0.03	0.05	0.22	<0.02	<0.02	<0.1	0.05	0.28	0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW001_20200623	Normal	EM2010693	0.11	<0.01	**0.26**	0.02	0.02	0.15	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW001_201113	Normal	EM2020041	0.37	<0.01	**0.53**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_SW001_210204	Normal	EM2101558	0.84	0.02	**1.11**	0.10	0.04	0.27	<0.02	<0.02	<0.1	0.04	0.22	0.03	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW001_20210429	Normal	EM2107856	0.41	0.01	**0.69**	0.04	0.04	0.28	<0.02	<0.02	<0.1	0.04	0.27	0.03	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW001_210806	Normal	EM2115478	0.13	<0.01	**0.16**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_SW001_220224	Normal	EM2203197	0.42	<0.01	**0.56**	0.03	<0.02	0.14	<0.02	<0.02	<0.1	0.03	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_SW001_220529	Normal	EM2210255	0.42	0.01	**0.61**	0.02	0.02	0.19	<0.02	<0.02	<0.1	0.04	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW001_220901	Normal	EM2216994-AD	0.28	<0.01	**0.43**	<0.02	0.02	0.15	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW001_231121	Normal	EM2320912	0.25	<0.01	**0.29**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW002	Off-Site	01 Jun 2016	OSW002	Normal	EM1606490	1.74	<0.01	***2.14***	0.06	0.05	0.4	0.03	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Oct 2016	OSW002	Normal	EM1612984	0.644	0.009	**1.01**	0.052	0.042	0.366	0.023	<0.002	<0.01	0.009	0.04	0.004	<0.002	<0.002	<0.002	<0.002
			QCA409	Field_D	EM1612868	0.772	0.016	**1.316**	0.07	0.051	0.544	0.024	<0.002	<0.01	0.009	0.066	0.006	<0.002	<0.002	<0.002	<0.002
								1.32													
			QCB410	Interlab_D	521935	1.1	0.02	**1.42**	0.04		0.32		<0.01	<0.05	0.02	0.15	0.01	<0.01	<0.01	<0.01	<0.01
		28 Nov 2019	0937_SW02_191128	Normal	EM1920529-AC	1.31	0.02	**1.73**	0.05	0.04	0.42	0.04	<0.02	<0.1	0.16	0.24	0.08	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_SW002_20200319	Normal	EM2004707	1.62	0.03	***2.10***	0.05	0.08	0.48	0.04	<0.02	<0.1	0.11	0.20	0.06	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW002_20200623	Normal	EM2010693	0.74	0.02	**1.09**	0.04	0.04	0.35	<0.02	<0.02	<0.1	0.08	0.21	0.04	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW002_201112	Normal	EM2020041	2.51	0.02	***2.85***	0.03	0.03	0.34	0.02	<0.02	<0.1	0.05	0.18	0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW002_210202	Normal	EM2101558	1.39	0.03	**1.86**	0.06	0.04	0.47	0.04	<0.02	<0.1	0.06	0.12	0.04	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW002_20210429	Normal	EM2107856	0.76	0.02	**1.20**	0.14	0.05	0.44	<0.02	<0.02	<0.1	0.05	0.12	0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW002_210805	Normal	EM2115478	0.76	<0.01	**0.81**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_QC104_211111	Field_D	EM2123001	0.34	<0.01	**0.38**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC204_211111	Interlab_D	847843	0.67	<0.01	**0.72**	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW002_211111	Normal	EM2123001	0.43	<0.01	**0.47**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW002_2220223	Normal	EM2203197	3.22	0.17	***6.78***	0.52	0.56	3.56	0.19	<0.02	0.2	0.56	1.03	0.19	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_SW002_220528	Normal	EM2210255	0.92	0.02	**1.19**	0.03	0.03	0.27	<0.02	<0.02	<0.1	0.05	0.11	0.03	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW002_220901	Normal	EM2216994-AD	0.62	0.01	**0.8**	0.04	0.03	0.18	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW002_231121	Normal	EM2320912	0.43	<0.01	**0.50**	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW004	Off-Site	26 Oct 2016	OSW004	Normal	EM1612984	0.314	0.004	**0.466**	0.022	0.02	0.152	0.011	<0.002	<0.01	0.009	0.042	0.003	<0.002	<0.002	<0.002	<0.002
		28 Nov 2019	0937_SW04_191128	Normal	EM1920529-AC	0.88	0.01	**1.08**	0.03	0.03	0.2	<0.02	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_SW004_20200319	Normal	EM2004707	1.48	0.02	**1.86**	0.03	0.05	0.38	0.02	<0.02	<0.1	0.11	0.17	0.04	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW004_200623	Normal	EM2010693	0.42	<0.01	**0.57**	0.02	0.02	0.15	<0.02	<0.02	<0.1	0.04	0.17	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW004_201112	Normal	EM2020041	2.59	<0.01	***2.80***	0.02	0.02	0.21	<0.02	<0.02	<0.1	0.03	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW004_210202	Normal	EM2101558	0.78	0.02	**1.08**	0.04	0.03	0.30	<0.02	<0.02	<0.1	0.04	0.22	0.03	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW004_20210429	Normal	EM2107856	2.51	0.04	***3.15***	0.08	0.06	0.64	0.04	<0.02	<0.1	0.06	0.15	0.03	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW004_210805	Normal	EM2115478	0.61	<0.01	**0.66**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_QC103_211111	Field_D	EM2123001	0.40	<0.01	**0.45**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC203_211111	Interlab_D	847843	0.72	<0.01	**0.8**	<0.01	<0.01	0.08	<0.01	<0.01	<0.05	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW004_211111	Normal	EM2123001	0.35	<0.01	**0.40**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW004_220223	Normal	EM2203197	0.76	0.02	**1.02**	0.03	0.03	0.26	<0.02	<0.02	<0.1	0.06	0.1	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_SW004_220528	Normal	EM2210255	0.79	0.02	**1.15**	0.05	0.04	0.36	0.02	<0.02	<0.1	0.07	0.14	0.03	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW004_220901	Normal	EM2216994-AD	0.42	0.01	**0.59**	0.03	0.02	0.17	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW004_231121	Normal	EM2320912	1.00	0.03	**1.49**	0.08	0.07	0.49	0.03	<0.02	<0.1	0.04	0.12	0.03	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW011	Off-Site	26 Oct 2016	OSW011	Normal	EM1612993	0.282	0.005	**0.472**	0.021	0.017	0.19	0.006	<0.002	<0.01	0.006	0.05	0.004	<0.002	<0.002	<0.002	<0.002
		04 Dec 2019	0937_QC110_191204	Field_D	EM1920784	0.17	<0.01	**0.27**	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC210_191204	Interlab_D	EM1920784	0.13	<0.01	**0.23**	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	0.03	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW011_191204	Normal	EM1920784	0.15	<0.01	**0.25**	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.12	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	0937_SW011_20200325	Normal	EM2005034	0.13	<0.01	**0.29**	0.02	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	0937_SW011_20200621	Normal	EM2010690	0.15	<0.01	**0.27**	0.02	<0.02	0.12	<0.02	<0.02	<0.1	0.03	0.16	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW011_201113	Normal	EM2020047	0.13	<0.01	**0.21**	0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW011_210202	Normal	EM2101562	0.15	<0.01	**0.32**	0.02	0.02	0.17	<0.02	<0.02	<0.1	0.03	0.18	0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	0937_SW011_20210430	Normal	EM2107855	0.18	<0.01	**0.37**	0.03	<0.02	0.19	<0.02	<0.02	<0.1	0.03	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW011_210806	Normal	EM2115483	0.10	<0.01	**0.13**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2021	0937_SW011_211110	Normal	EM2123004	0.06	<0.01	**0.08**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW011_220223	Normal	EM2203194	0.13	<0.01	**0.19**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		27 May 2022	0937_SW011_220527	Normal	EM2210252	0.13	<0.01	**0.21**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	0937_SW011_231122	Normal	EM2320910	0.07	<0.01	**0.10**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW012	Off-Site	26 Oct 2016	OSW012	Normal	EM1612988	0.011	<0.002	0.011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
		04 Dec 2019	0937_SW012_191204	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	0937_SW012_20200325	Normal	EM2005032	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	0937_SW012_20200623	Normal	EM2010690	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW012_201113	Normal	EM2020052	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_SW012_210202	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	0937_SW012_20210430	Normal	EM2107805	0.02	<0.01	0.05	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW012_210806	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2021	0937_SW012_211110	Normal	EM2123004	0.03	<0.01	0.04	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW012_220223	Normal	EM2203192	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_SW012_220527	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	0937_SW012_231122	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW014	Off-Site	26 Oct 2016	OSW014	Normal	EM1612993	0.072	<0.002	**0.14**	0.008	0.006	0.068	<0.002	<0.002	<0.01	0.003	0.022	<0.002	<0.002	<0.002	<0.002	<0.002
		04 Dec 2019	0937_SW014_191204	Normal	EM1920787	0.05	<0.01	**0.14**	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	0937_QC106_20200325	Field_D	EM2005034	0.03	<0.01	0.07	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC206_20200325	Interlab_D	710361	0.05	<0.01	**0.09**	<0.01	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW014_20200325	Normal	EM2005034	0.03	<0.01	**0.08**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	0937_SW014_20200623	Normal	EM2010690	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW014_201113	Normal	EM2020047	0.06	<0.01	**0.12**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW014_210202	Normal	EM2101562	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	0937_SW014_20210430	Normal	EM2107855	0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW014_210806	Normal	EM2115483	0.11	<0.01	**0.13**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2021	0937_SW014_211110	Normal	EM2123004	0.05	<0.01	0.07	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW014_220223	Normal	EM2203194	0.10	<0.01	**0.15**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		27 May 2022	0937_SW014_220527	Normal	EM2210252	0.16	<0.01	**0.24**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	0937_SW014_231122	Normal	EM2320910	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW015	Off-Site	26 Oct 2016	OSW015	Normal	EM1612993	0.148	0.004	**0.313**	0.02	0.016	0.165	0.006	<0.002	<0.01	0.007	0.052	0.004	<0.002	<0.002	<0.002	<0.002
		04 Dec 2019	0937_SW015_191204	Normal	EM1920784	0.28	0.02	**0.83**	0.04	0.03	0.55	<0.02	<0.02	<0.1	0.03	0.22	0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	0937_SW015_20200325	Normal	EM2005034	0.12	<0.01	**0.28**	0.02	0.03	0.16	<0.02	<0.02	<0.1	0.03	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	0937_SW015_200623	Normal	EM2010690	0.04	<0.01	**0.14**	0.02	<0.02	0.10	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW015_201113	Normal	EM2020047	0.07	<0.01	**0.15**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW015_210202	Normal	EM2101562	0.07	<0.01	**0.23**	0.03	0.02	0.16	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	0937_SW015_20210430	Normal	EM2107855	0.10	<0.01	**0.29**	0.03	0.03	0.19	<0.02	<0.02	<0.1	0.04	0.21	0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW015_220223	Normal	EM2203194	0.09	<0.01	**0.15**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		27 May 2022	0937_SW015_220527	Normal	EM2210252	0.07	<0.01	**0.15**	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	0937_SW015_231122	Normal	EM2320910	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW016	Off-Site	26 Oct 2016	OSW016	Normal	EM1612993	0.119	0.004	**0.286**	0.019	0.016	0.167	0.006	<0.002	<0.01	0.006	0.046	0.004	<0.002	<0.002	<0.002	<0.002
		25 Mar 2020	0937_SW016_20200325	Normal	EM2005034	0.23	<0.01	**0.39**	0.02	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.20	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	0937_SW016_20200622	Normal	EM2010690	0.16	<0.01	**0.27**	0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW016_201113	Normal	EM2020047	0.20	0.03	**0.83**	0.12	0.10	0.63	0.02	<0.02	<0.1	0.04	0.25	0.03	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW016_210202	Normal	EM2101562	0.15	<0.01	**0.31**	0.04	0.02	0.16	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	0937_SW016_20210430	Normal	EM2107855	0.13	<0.01	**0.29**	0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.03	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	0937_SW016_231122	Normal	EM2320910	0.04	<0.01	0.07	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW019	Off-Site	28 Oct 2016	OSW019	Normal	EM1612987	0.053	<0.002	**0.083**	0.004	0.004	0.03	<0.002	<0.002	<0.01	<0.002	0.007	<0.002	<0.002	<0.002	<0.002	<0.002
		06 Dec 2016	OSW019	Normal	EM1614830	0.066	<0.002	**0.085**	0.011	0.003	0.019	<0.002	<0.002	<0.01	<0.002	0.009	<0.002	<0.002	<0.002	<0.002	<0.002
		03 Dec 2019	0937_SW019_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Mar 2020	0937_SW019_20200316	Normal	EM2004774	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW019_200618	Normal	EM2010385	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW019_201112	Normal	EM2020045	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_SW019_210203	Normal	EM2101568	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.2	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
		21 Apr 2021	0937_SW019_20210421	Normal	EM2107090	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_SW019_210804	Normal	EM2115485	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_SW019_211111	Normal	EM2123008	0.09	<0.01	**0.11**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_SW019_220222	Normal	EM2203193	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_SW019_220529	Normal	EM2210260	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_SW019_220830	Normal	EM2216989	0.04	<0.01	0.04	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_SW019_221130	Normal	EM2223922	0.05	<0.01	0.05	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW019_231121	Normal	EM2320917	0.03	<0.01	0.03	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW030	Off-Site	26 Oct 2016	OSW030	Normal	EM1612981	0.138	0.006	**0.348**	0.026	0.019	0.21	0.007	<0.002	<0.01	0.006	0.053	0.004	<0.002	<0.002	<0.002	<0.002
		04 Dec 2019	0937_SW030_191204	Normal	EM1920788	0.57	<0.01	**0.77**	0.03	0.03	0.20	<0.02	<0.02	<0.1	0.04	0.23	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_SW030_20200319	Normal	EM2004716	0.739	0.014	**0.973**	0.043	0.034	0.234	0.025	0.003	0.02	0.037	0.208	0.030	<0.002	<0.002	<0.002	<0.002
		19 Jun 2020	0937_QC109_200619	Field_D	EM2010383	0.42	<0.01	**0.66**	0.03	0.03	0.24	<0.02	<0.02	<0.1	0.04	0.24	0.03	<0.02	<0.02	<0.02	<0.02
			0937_QC209_200619	Interlab_D	726765	0.34	<0.01	**0.49**	0.02	0.02	0.15	<0.01	<0.01	<0.05	0.03	0.16	0.02	<0.01	<0.01	<0.01	<0.01
			0937_SW030_200619	Normal	EM2010383	0.38	<0.01	**0.64**	0.03	0.04	0.26	<0.02	<0.02	<0.1	0.05	0.24	0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW030_201112	Normal	EM2020042	1.49	<0.01	**1.64**	0.02	<0.02	0.15	<0.02	<0.02	<0.1	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW030_210202	Normal	EM2101566	0.69	0.01	**0.89**	0.02	<0.02	0.20	<0.02	<0.02	<0.1	0.03	0.18	0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW030_20210429	Normal	EM2107807	0.54	<0.01	**0.72**	0.09	0.03	0.18	<0.02	<0.02	<0.1	0.03	0.20	0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW030_210805	Normal	EM2115482	0.06	<0.01	**0.09**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_SW030_211111	Normal	EM2123005	0.24	<0.01	**0.27**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW030_220223	Normal	EM2203198	0.54	<0.01	**0.64**	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_SW030_220529	Normal	EM2210257	0.24	<0.01	**0.33**	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Sep 2022	0937_SW030_220902	Normal	EM2216993	0.63	0.01	**0.82**	0.03	0.02	0.19	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_SW030_221130	Normal	EM2223928	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW031	Off-Site	26 Oct 2016	OSW031	Normal	EM1612982	0.128	0.003	**0.293**	0.024	0.017	0.165	0.005	<0.002	<0.01	0.007	0.059	0.004	<0.002	<0.002	<0.002	<0.002
		28 Nov 2019	0937_SW031_191128	Normal	EM1920529	0.04	<0.01	0.07	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW031_20200320	Normal	EM2004718	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW031_200623	Normal	EM2010696	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW031_201113	Normal	EM2020044	0.06	<0.01	**0.10**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW031_210202	Normal	EM2101565	0.10	<0.02	**0.26**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW031_20210429	Normal	EM2107809	0.07	<0.01	**0.26**	0.08	0.03	0.19	<0.02	<0.02	<0.1	0.04	0.21	0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_SW031_231123	Normal	EM2320915	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW032	Off-Site	26 Oct 2016	OSW032	Normal	EM1612982	0.075	<0.002	**0.135**	0.013	0.006	0.06	<0.002	<0.002	<0.01	0.003	0.018	<0.002	<0.002	<0.002	<0.002	<0.002
			QCA417	Field_D	EM1612868	0.085	<0.002	**0.144**	0.014	0.007	0.059	0.002	<0.002	<0.01	<0.002	0.017	<0.002	<0.002	<0.002	<0.002	<0.002
			QCB418	Interlab_D	521935	0.11	<0.01	**0.14**	<0.01		0.03		<0.01	<0.05	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
		28 Nov 2019	0931_SW032_191128	Normal	EM1920529	0.08	<0.01	**0.19**	0.02	0.02	0.11	<0.02	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW032_20200320	Normal	EM2004718	0.20	<0.01	**0.30**	0.02	0.02	0.10	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW032_200322	Normal	EM2010696	0.02	<0.01	0.05	0.03	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW032_201113	Normal	EM2020044	0.13	<0.01	**0.19**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW032_210202	Normal	EM2101565	0.42	0.01	**0.64**	0.03	<0.02	0.22	<0.02	<0.02	<0.1	0.04	0.20	0.02	<0.02	<0.02	<0.02	<0.02
		04 May 2021	0937_SW032_20210504	Normal	EM2108092	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW032_210806	Normal	EM2115477	0.12	<0.01	**0.15**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_SW032_211118	Normal	EM2123007	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_SW032_220224	Normal	EM2203200	0.05	<0.01	**0.08**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_SW032_220531	Normal	EM2210258	0.15	<0.01	**0.24**	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	0.02	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW032_220901	Normal	EM2216991	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_SW032_221130	Normal	EM2223921	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_SW032_231123	Normal	EM2320915	0.03	<0.01	0.05	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW034	Off-Site	26 Oct 2016	OSW034	Normal	EM1612997	0.107	<0.002	**0.264**	0.02	0.016	0.157	0.004	<0.002	<0.01	0.004	0.024	0.003	<0.002	<0.002	<0.002	<0.002
		28 Nov 2019	0937_SW034_191128	Normal	EM1920529-AC	1.27	0.01	**1.44**	0.03	0.03	0.17	<0.02	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW034_20200320	Normal	EM2004707	1.33	0.01	**1.53**	0.03	0.05	0.20	0.02	<0.02	<0.1	0.07	0.31	0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW034_20200618	Normal	EM2010382	0.49	<0.01	**0.65**	0.04	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.24	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW034_201113	Normal	EM2020041	0.54	<0.01	**0.72**	<0.02	0.02	0.18	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW034_2102032	Normal	EM2101558	2.42	0.02	***2.73***	0.03	0.04	0.31	0.02	<0.02	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW034_20210429	Normal	EM2107856	0.54	0.01	**0.77**	0.08	0.03	0.23	<0.02	<0.02	<0.1	0.05	0.25	0.03	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW034_210806	Normal	EM2115478	0.07	<0.01	**0.09**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_SW034_211117	Normal	EM2123001	0.11	<0.01	**0.14**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_SW034_220224	Normal	EM2203197	0.66	0.01	**0.81**	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_SW034_220531	Normal	EM2210255	0.28	0.01	**0.46**	0.02	0.02	0.18	<0.02	<0.02	<0.1	0.04	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW034_220901	Normal	EM2216994-AD	0.21	<0.01	**0.36**	0.02	0.02	0.15	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW034_231121	Normal	EM2320912	0.20	<0.01	**0.23**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW035	Off-Site	26 Oct 2016	OSW035	Normal	EM1612997	0.494	0.004	**0.74**	0.022	0.019	0.246	0.015	<0.002	<0.01	0.004	0.026	0.004	<0.002	<0.002	<0.002	<0.002
		26 Mar 2020	0937_SW035_20200326	Normal	EM2005031	1.16	0.02	**1.46**	0.03	0.05	0.30	0.02	<0.02	<0.1	0.05	0.29	0.03	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW035_20200623	Normal	EM2010693	0.12	<0.01	**0.26**	0.02	0.02	0.14	<0.02	<0.02	<0.1	0.03	0.17	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW035_201113	Normal	EM2020041	0.30	<0.01	**0.45**	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	<0.02	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_SW035_210204	Normal	EM2101558	7.11	0.02	***7.41***	0.05	0.03	0.30	0.04	0.21	<0.1	0.04	0.21	0.03	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW035_20210429	Normal	EM2107856	0.26	0.02	**0.53**	0.06	0.04	0.27	<0.02	<0.02	<0.1	0.05	0.24	0.03	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_SW035_220224	Normal	EM2203197	0.42	<0.01	**0.56**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_SW035_220529	Normal	EM2210255	0.38	0.01	**0.58**	<0.02	0.02	0.20	<0.02	<0.02	<0.1	0.04	0.10	0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW035_231121	Normal	EM2320912	0.25	<0.01	**0.29**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW041	Off-Site	26 Oct 2016	OSW041	Normal	EM1612997	0.152	<0.002	**0.329**	0.02	0.017	0.177	0.007	<0.002	<0.01	0.004	0.026	0.003	<0.002	<0.002	<0.002	<0.002
		28 Nov 2019	0937_SW041_191128	Normal	EM1920529-AC	2.07	0.04	***2.35***	0.04	0.04	0.28	0.04	<0.02	<0.1	0.05	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW041_20200320	Normal	EM2004707	3.60	0.07	***4.69***	0.08	0.20	1.09	0.11	<0.02	<0.1	0.20	0.79	0.08	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW041_20200618	Normal	EM2010382	0.67	0.01	**0.93**	0.03	0.03	0.26	0.06	<0.02	<0.1	0.04	0.22	0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW041_201113	Normal	EM2020041	0.39	<0.01	**0.55**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW041_210203	Normal	EM2101558	2.89	0.03	***3.19***	0.03	0.04	0.30	0.02	0.05	<0.1	0.04	0.23	0.03	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW041_20210429	Normal	EM2107856	0.92	0.02	**1.21**	0.06	0.05	0.29	<0.02	<0.02	<0.1	0.04	0.24	0.03	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW041_210806	Normal	EM2115478	0.17	<0.01	**0.20**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_SW041_211111	Normal	EM2123001	0.40	<0.01	**0.44**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Feb 2022	0937_SW041_220224	Normal	EM2203197	0.86	0.01	**1.03**	0.03	<0.02	0.17	<0.02	<0.02	<0.1	0.03	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_SW041_220529	Normal	EM2210255	1.17	0.01	**1.37**	0.02	0.02	0.20	<0.02	<0.02	<0.1	0.04	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW041_220901	Normal	EM2216994-AD	0.29	0.01	**0.45**	0.03	0.02	0.16	<0.02	<0.02	<0.1	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW041_231121	Normal	EM2320912	0.57	0.02	**0.76**	<0.02	0.02	0.19	<0.02	<0.02	<0.1	<0.02	0.12	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW049	Off-Site	27 Oct 2016	OSW049	Normal	EM1613003	0.198	<0.002	0	0.02	0.015	0.163	0.004	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
								0.361													
		03 Dec 2019	0937_SW049_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_SW049_	Normal	EM2004719	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW049_20200618	Normal	EM2010386	0.12	<0.05	**0.12**	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
		12 Nov 2020	0937_SW049_201112	Normal	EM2020046	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_SW049_210201	Normal	EM2101559	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_SW049_20210421	Normal	EM2107088	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	0937_SW049_210806	Normal	EM2115480	<0.01	<0.01	**0.08**	0.03	<0.02	0.08	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Nov 2021	0937_SW049_211118	Normal	EM2123002	0.36	<0.01	**0.68**	0.14	0.04	0.32	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_SW049_220222	Normal	EM2203201	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_SW049_220531	Normal	EM2210259	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Aug 2022	0937_SW049_220829	Normal	EM2216987	0.04	<0.01	**0.38**	0.07	0.07	0.34	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Dec 2022	0937_SW049_221201	Normal	EM2223923	0.94	0.03	**1.67**	0.05	0.07	0.73	0.03	<0.02	<0.1	0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_SW049_231123	Normal	EM2320918	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW052	Off-Site	26 Oct 2016	OSW052	Normal	EM1612985	0.293	0.009	**0.603**	0.038	0.029	0.31	0.012	<0.002	<0.01	0.007	0.06	0.005	<0.002	<0.002	<0.002	<0.002
		04 Dec 2019	0937_SW052_191204	Normal	EM1920785	6.26	0.05	***6.86***	0.03	0.04	0.60	0.11	<0.02	<0.1	0.06	0.23	0.04	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_SW052_20200319	Normal	EM2004717	13.9	0.09	***15.2***	0.08	0.19	1.28	0.20	0.03	<0.1	0.16	0.65	0.12	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW052-200623	Normal	EM2010691	11.6	0.06	***12.4***	0.06	0.07	0.78	0.15	<0.02	<0.1	0.09	0.38	0.07	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW052_201112	Normal	EM2020043	3.24	0.04	***4.15***	0.07	0.07	0.91	0.05	<0.02	<0.1	0.05	0.36	0.05	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_SW052_210204	Normal	EM2101564	2.99	0.03	***3.38***	0.03	0.04	0.39	0.05	<0.02	<0.1	0.06	0.24	0.04	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW052_20210429	Normal	EM2107806	0.96	0.02	**1.22**	0.06	0.04	0.26	0.02	<0.02	<0.1	0.04	0.23	0.03	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW052_210805	Normal	EM2115484	0.60	<0.01	**0.79**	<0.02	<0.02	0.19	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_SW052_211111	Normal	EM2123006	0.87	0.01	**1.16**	0.02	0.03	0.29	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	0937_SW052_220223	Normal	EM2203199	0.94	0.01	**1.11**	0.04	<0.02	0.17	<0.02	<0.02	<0.1	0.04	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		28 May 2022	0937_SW052_220528	Normal	EM2210256	0.78	<0.01	**0.81**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Sep 2022	0937_SW052_220901	Normal	EM2216992	1.12	0.02	**1.67**	0.07	0.07	0.55	0.03	<0.02	<0.1	0.06	0.13	0.03	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW052_231121	Normal	EM2320914	0.33	<0.01	**0.44**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
SW077	Off-Site	02 Dec 2019	0937_QC209_191202	Interlab_D	692892	0.03	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
		03 Dec 2019	0937_QC109_191203	Field_D	EM1920780	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW077_191203	Normal	EM1920780	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_SW077_20200318	Normal	EM2004708	0.05	0.01	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	0937_SW077_20200622	Normal	EM2010695	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW077_201113	Normal	EM2020052	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	0937_SW077_210204	Normal	EM2101560	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_SW077_2021042	Normal	EM2107087	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW077_210805	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Nov 2021	0937_SW077_211117	Normal	EM2123079	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Feb 2022	0937_SW077_220221	Normal	EM2203192	0.02	<0.01	0.03	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_SW077_220531	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Sep 2022	0937_SW077_220902	Normal	EM2216985	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		01 Dec 2022	0937_SW077_221201	Normal	EM2223925	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	0937_SW077_231122	Normal	EM2320919	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW080	**Off-Site**	**04 Dec 2019**	**0937_SW080_191204**	**Normal**	**EM1920780**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	**0937_SW080_20200325**	**Normal**	**EM2005032**	0.01	<0.01	0.03	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	**0937_SW080_20200621**	**Normal**	**EM2010695**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	**0937_SW080_201113**	**Normal**	**EM2020052**	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Feb 2021	**0937_SW080_210202**	**Normal**	**EM2101560**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	**0937_SW080_20210430**	**Normal**	**EM2107805**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	**0937_SW080_210806**	**Normal**	**EM2115569**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	**0937_SW080_211111**	**Normal**	**EM2123079**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	**0937_SW080_220223**	**Normal**	**EM2203192**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 May 2022	**0937_SW080_220527**	**Normal**	**EM2210253**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	**0937_QC113_220831**	**Field_D**	**EM2216985**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC213_220831	**Interlab_D**	**922406**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW080_220831	**Normal**	**EM2216985**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	**0937_SW080_231122**	**Normal**	**EM2320919**	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW082	**Off-Site**	**04 Dec 2019**	**0937_SW082_191204**	**Normal**	**EM1920787**	<0.01	<0.01	0.04	0.03	0.02	0.04	<0.02	<0.02	<0.1	0.05	0.22	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	**0937_SW082_20200325**	**Normal**	**EM2005034**	0.01	<0.01	0.16	0.03	0.03	0.15	<0.02	<0.02	<0.1	0.04	0.23	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	**0937_SW082_200623**	**Normal**	**EM2010690**	0.03	<0.01	0.10	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	0.03	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	**0936_SW082_201113**	**Normal**	**EM2020047**	0.02	<0.01	0.12	<0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	**0937_SW082_210202**	**Normal**	**EM2101562**	0.06	<0.01	0.22	0.04	0.03	0.16	<0.02	<0.02	<0.1	0.04	0.22	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	**0937_SW082_20210430**	**Normal**	**EM2107855**	0.02	<0.01	0.17	0.04	0.02	0.15	<0.02	<0.02	<0.1	0.05	0.25	0.02	<0.02	<0.02	<0.02	<0.02
		06 Aug 2021	**0937_SW082_210806**	**Normal**	**EM2115483**	0.06	<0.01	0.08	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	**0937_SW082_211111**	**Normal**	**EM2123004**	0.04	<0.01	0.06	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Feb 2022	**0937_SW082_220223**	**Normal**	**EM2203194**	0.06	<0.01	0.12	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		27 May 2022	**0937_SW082_220527**	**Normal**	**EM2210252**	0.07	<0.01	0.15	<0.02	<0.02	0.08	<0.02	<0.02	<0.1	0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	**0937_SW082_220831**	**Normal**	**EM2216996**	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Nov 2023	**0937_SW082_231122**	**Normal**	**EM2320910**	0.02	<0.01	0.04	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW088	**Off-Site**	**04 Dec 2019**	**0937_SW088_191204**	**Normal**	**EM1920784**	0.04	<0.01	0.07	0.03	<0.02	0.03	<0.02	<0.02	<0.1	0.04	0.20	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	**0937_SW088_20200319**	**Normal**	**EM2004706**	5.68	0.12	***7.18***	0.06	0.12	1.50	0.29	<0.02	<0.1	0.12	0.56	0.06	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	**0937_SW088_20200618**	**Normal**	**EM2010381**	2.62	0.04	***3.03***	0.04	0.06	0.41	0.10	<0.02	<0.1	0.07	0.38	0.03	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	**0937_SW088_201112**	**Normal**	**EM2020047**	9.74	0.03	***10.1***	0.03	0.04	0.39	0.10	<0.02	<0.1	0.02	0.24	0.03	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	**0937_SW088_210202**	**Normal**	**EM2101562**	0.20	0.01	0.43	0.03	0.02	0.23	<0.02	<0.02	<0.1	0.03	0.21	0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	**0937_SW088_20210429**	**Normal**	**EM2107855**	0.48	<0.01	0.66	0.04	0.02	0.18	<0.02	<0.02	<0.1	0.06	0.34	<0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	**0937_SW088_210805**	**Normal**	**EM2115483**	0.08	<0.01	0.12	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	**0937_SW088_211111**	**Normal**	**EM2123004**	0.27	<0.01	0.31	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	**0937_SW088_220222**	**Normal**	**EM2203194**	0.51	<0.01	0.60	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	**0937_SW088_220529**	**Normal**	**EM2210252**	0.13	<0.01	0.22	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	**0937_SW088_220831**	**Normal**	**EM2216996**	0.10	<0.01	0.14	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	**0937_SW088_231121**	**Normal**	**EM2320910**	0.43	<0.01	0.46	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW089	**Off-Site**	**04 Dec 2019**	**0937_SW089_191204**	**Normal**	**EM1920787**	0.06	<0.01	0.30	0.04	0.04	0.24	<0.02	<0.02	<0.1	0.06	0.31	0.02	<0.02	<0.02	<0.02	<0.02
		25 Mar 2020	**0937_SW089_20200325**	**Normal**	**EM2005034**	0.09	0.01	0.42	0.05	0.07	0.33	<0.02	<0.02	<0.1	0.08	0.42	0.03	<0.02	<0.02	<0.02	<0.02
		22 Jun 2020	**0937_SW089_20200623**	**Normal**	**EM2010690**	0.15	<0.01	0.34	0.03	0.03	0.19	<0.02	<0.02	<0.1	0.04	0.24	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	**0937_SW089_201113**	**Normal**	**EM2020047**	0.12	<0.01	0.26	0.02	0.02	0.14	<0.02	<0.02	<0.1	0.03	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	**0937_SW089_210202**	**Normal**	**EM2101562**	0.43	0.01	0.66	0.04	0.03	0.23	<0.02	<0.02	<0.1	0.03	0.19	0.02	<0.02	<0.02	<0.02	<0.02
		30 Apr 2021	**0937_SW089_20210430**	**Normal**	**EM2107855**	0.36	<0.01	0.64	0.03	0.03	0.28	<0.02	<0.02	<0.1	0.05	0.28	0.03	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	**0937_SW089_210804**	**Normal**	**EM2115483**	0.25	<0.01	0.29	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2021	**0937_SW089_211110**	**Normal**	**EM2123004**	0.17	<0.01	0.20	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	**0937_SW089_220222**	**Normal**	**EM2203194**	0.42	<0.01	0.49	<0.02	<0.02	0.07	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		27 May 2022	**0937_SW089_220527**	**Normal**	**EM2210252**	0.17	<0.01	0.26	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	**0937_SW089_220831**	**Normal**	**EM2216996**	0.16	<0.01	0.22	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	**0937_SW089_231121**	**Normal**	**EM2320910**	0.14	<0.01	0.16	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons														
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW092	Off-Site	03 Dec 2019	0937_SW092_191203	Normal	EM1920780	0.01	<0.01	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Mar 2020	0937_SW092_20200316	Normal	EM2004774	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW092_20200618	Normal	EM2010385	0.03	<0.01	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW092_201112	Normal	EM2020045	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_SW092_210203	Normal	EM2101568	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_SW092_20210421	Normal	EM2107090	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_SW092_210804	Normal	EM2115485	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_SW092_211111	Normal	EM2123008	0.06	<0.01	0.07	<0.02	<0.02	0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_SW092_220222	Normal	EM2203193	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_SW092_220529	Normal	EM2210260	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_SW092_220830	Normal	EM2216989	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_SW092_221130	Normal	EM2223922	0.02	<0.01	0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW092_231121	Normal	EM2320917	0.03	<0.01	0.03	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW093	Off-Site	03 Dec 2019	0937_SW093_191203	Normal	EM1920780	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Mar 2020	0937_SW093_20200316	Normal	EM2004708	0.02	<0.01	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW093_200618	Normal	EM2010387	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW093_201112	Normal	EM2020052	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_SW093_210203	Normal	EM2101560	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Apr 2021	0937_SW093_20210421	Normal	EM2107087	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_SW093_210804	Normal	EM2115569	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2021	0937_SW093_211111	Normal	EM2123079	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_SW093_220222	Normal	EM2203192	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 May 2022	0937_SW093_220529	Normal	EM2210253	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Aug 2022	0937_SW093_220830	Normal	EM2216985	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_SW093_221130	Normal	EM2223925	0.01	<0.01	0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW093_231121	Normal	EM2320919	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SW201	On-Site	12 Nov 2021	0937_SW201_211112	Normal	EM2123080	2.62	0.04	***3.28***	0.08	0.06	0.66	0.05	<0.02	<0.1	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_QC103_220823	Field_D	EM2216476	8.47	0.14	***10.9***	0.32	0.25	2.47	0.21	<0.02	0.2	0.21	0.49	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC203_220823	Interlab_D	922647	10	0.16	***13.4***	0.27	0.39	3.4	0.38	<0.01	0.21	0.17	0.63	0.06	<0.01	<0.01	<0.01	<0.01
			0937_SW201_220823	Normal	EM2216476	7.93	0.16	***11.3***	0.25	0.30	3.38	0.22	<0.02	0.2	0.18	0.41	0.06	<0.02	<0.02	<0.02	<0.02
		22 Nov 2022	0937_SW201_221122	Normal	EM2223510	11.4	0.27	***17.0***	0.41	0.52	5.60	0.34	<0.02	0.2	0.17	0.78	0.10	<0.02	<0.02	<0.02	<0.02
SW203	On-Site	20 Nov 2019	0937_SW203_191120	Normal	EM1920039	10.1	0.30	***24.5***	0.94	1.25	14.4	0.39	<0.02	0.3	0.33	1.56	0.10	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_SW203_20200317	Normal	EM2004711	3.48	0.06	***5.59***	0.15	0.28	2.11	0.10	<0.02	<0.1	0.08	0.37	0.03	<0.02	<0.02	<0.02	<0.02
		15 Jun 2020	0937_SW203_20200615	Normal	EM2010514	1.93	0.04	***3.17***	0.11	0.10	1.24	0.05	<0.02	0.1	0.07	0.27	0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_SW203_201110	Normal	EM2020050	11.1	0.14	***14.5***	0.23	0.30	3.40	0.24	<0.02	0.1	0.13	0.71	0.05	<0.02	<0.02	<0.02	<0.02
		03 Feb 2021	0937_SW203_210203	Normal	EM2101575	0.94	0.04	***2.14***	0.18	0.13	1.20	0.04	<0.02	0.2	0.11	0.49	0.04	<0.02	<0.02	<0.02	<0.02
		22 Apr 2021	0937_ SW203 _20210422	Normal	EM2107085	2.49	0.06	***4.16***	0.18	0.17	1.67	0.10	<0.02	<0.1	0.08	0.46	0.04	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_QC105_210713	Field_D	EM2113872-AB	25.5	**1.48**	***106***	15.2	9.84	80.0	1.94	<0.04	1.2	4.74	22.4	0.87	<0.04	<0.04	<0.04	<0.04
			0937_QC205_210713	Interlab_D	811260	27	**2.2**	***137***	21	20	110	1.6	<0.1	4.3	6.7	28	1.2	<0.1	<0.1	<0.1	<0.1
			0937_SW203_210713	Normal	EM2113872-AB	26.2	**1.34**	***100***	13.4	8.34	74.2	1.73	<0.04	1.0	3.97	20.5	0.83	<0.04	<0.04	<0.04	<0.04
		12 Nov 2021	0937_SW203_211112	Normal	EM2123080	0.50	<0.01	**0.74**	<0.02	<0.02	0.24	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Feb 2022	0937_SW203_220215	Normal	EM2202703	33.6	0.2	***39.5***	0.6	0.57	5.86	0.59	<0.02	0.3	0.34	1.51	0.1	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC102_220525	Field_D	EM2210316	15.6	0.20	***20.4***	0.47	0.48	4.82	0.31	<0.02	0.2	0.28	1.33	0.09	<0.02	<0.02	<0.02	<0.02
			0937_QC202_220525	Interlab_D	893740	16	0.16	***19.8***	0.33	0.43	3.8	0.26	<0.01	0.13	0.17	0.76	0.07	<0.01	<0.01	<0.01	<0.01
			0937_SW203_220525	Normal	EM2210316	13.6	0.15	***17.2***	0.36	0.39	3.59	0.23	<0.02	0.1	0.26	0.95	0.08	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW203_220823	Normal	EM2216476	4.13	0.11	***10.2***	0.61	0.54	6.11	0.20	<0.02	0.2	0.25	0.63	0.05	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW203_221124	Normal	EM2223510	12.1	**1.00**	***62.6***	13.1	9.91	50.5	0.90	<0.04	0.7	2.51	11.7	0.84	<0.04	<0.04	<0.04	<0.04
		16 Nov 2023	0937_SW203_231116	Normal	EM2320952	6.40	0.07	***8.78***	0.20	0.24	2.38	0.11	0.02	<0.1	0.11	0.58	0.04	<0.02	<0.02	<0.02	<0.02
SW206	On-Site	13 Oct 2016	SW206	Normal	EM1612198	22.9	0.4	***25.96***	0.26	0.32	3.06	0.27	<0.02	<0.1	0.59	1.21	0.27	0.02	0.04	<0.02	<0.02
		28 Jan 2021	0937_SW206_210128	Normal	EM2101229	0.08	<0.01	**0.17**	<0.02	<0.02	0.09	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW208	On-Site	14 Oct 2016	SW208	Normal	EM1612198	2.65	0.05	***4.61***	0.21	0.17	1.96	0.1	<0.02	<0.1	<0.02	0.25	0.03	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_SW208_20200317	Normal	EM2004711	0.39	<0.01	**0.53**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jun 2020	0937_SW208_200615	Normal	EM2010514	0.39	<0.01	**0.57**	<0.02	<0.02	0.18	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_QC107_201110	Field_D	EM2020050	1.57	0.03	***2.37***	0.12	0.08	0.80	0.04	<0.02	<0.1	0.13	0.24	0.04	<0.02	<0.02	<0.02	<0.02
			0937_QC207_201110	Interlab_D	757178	1.3	0.05	***2.4***	0.13	0.11	1.1	0.04	<0.01	0.12	0.18	0.29	0.05	<0.01	<0.01	<0.01	<0.01
			0937_SW208_201110	Normal	EM2020050	1.24	0.03	***2.13***	0.12	0.10	0.89	0.03	<0.02	<0.1	0.13	0.24	0.04	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW208_210128	Normal	EM2101229	1.92	0.03	***3.02***	0.10	0.09	1.10	0.06	<0.02	<0.1	0.04	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_ SW208 _20210428	Normal	EM2107858	0.32	<0.01	**0.45**	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_SW208_210713	Normal	EM2113872-AB	3.04	0.06	***4.47***	0.30	0.18	1.43	0.07	<0.02	<0.1	0.14	0.41	0.05	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW208_211112	Normal	EM2123080	0.05	<0.01	**0.08**	<0.02	<0.02	0.03	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Feb 2022	0937_QC108_220216	Field_D	EM2202703	0.68	0.02	**1.06**	0.08	0.06	0.38	<0.02	<0.02	<0.1	0.14	0.25	0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC208_220216	Interlab_D	864735	0.74	0.02	**1.11**	0.09	0.06	0.37	0.01	<0.01	0.14	0.16	0.16	0.03	<0.01	<0.01	<0.01	<0.01
			0937_SW208_220216	Normal	EM2202703	0.8	0.02	**1.16**	0.08	0.06	0.36	<0.02	<0.02	<0.1	0.13	0.23	0.02	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC103_220525	Field_D	EM2210316	0.45	<0.01	**0.73**	0.04	0.03	0.28	<0.02	<0.02	<0.1	0.10	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC203_220525	Interlab_D	893740	0.30	<0.01	**0.48**	0.02	0.02	0.18	<0.01	<0.01	<0.05	0.10	0.13	0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW208_220525	Normal	EM2210316	0.24	<0.01	**0.42**	0.02	<0.02	0.18	<0.02	<0.02	<0.1	0.12	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW208_220823	Normal	EM2216476	0.63	0.02	**1.22**	0.09	0.07	0.59	0.02	<0.02	<0.1	0.08	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW208_221124	Normal	EM2223510	2.02	0.03	***2.82***	0.14	0.10	0.80	0.04	<0.02	<0.1	0.06	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
SW209	On-Site	21 Oct 2016	SW209	Normal	EM1612570	255	**2.34**	***283***	2.45	2.57	28	2.98	0.53	<0.1	2.32	5.56	1.1	<0.1	<0.1	<0.1	<0.1
		20 Nov 2019	0937_SW209_191120	Normal	EM1920039	31.2	**0.61**	***35.2***	0.42	0.33	4.02	0.68	0.53	0.4	0.41	1.49	0.17	<0.02	0.03	<0.02	<0.02
		17 Mar 2020	0937_SW209_20200317	Normal	EM2004711	33.3	0.26	***35.4***	0.22	0.26	2.09	0.28	1.09	0.2	0.16	0.94	0.09	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW209_200616	Normal	EM2010514	18.2	0.26	***19.6***	<0.02	0.14	1.41	0.20	0.41	0.2	0.11	0.62	0.09	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW209_20200623	Normal	EM2010697																
		10 Nov 2020	0937_SW209_201110	Normal	EM2020050	13.6	0.20	***15.2***	0.86	0.22	1.57	0.11	0.21	<0.2	0.28	0.89	0.09	<0.04	<0.04	<0.04	<0.04
		28 Jan 2021	0937_SW209_210128	Normal	EM2101229	14.8	0.26	***16.9***	0.54	0.21	2.06	0.21	0.33	0.4	0.28	0.74	0.09	<0.02	<0.02	<0.02	<0.02
		22 Apr 2021	0937_ SW209 _2022042	Normal	EM2107085	12.2	0.23	***13.3***	0.30	0.12	1.10	0.25	0.51	0.2	0.11	0.39	0.06	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_SW209_210713	Normal	EM2113872-AB	18.0	0.36	***20.3***	0.63	0.22	2.34	0.30	0.07	<0.2	0.19	0.85	0.14	<0.04	<0.04	<0.04	<0.04
		15 Nov 2021	0937_QC110_211115	Field_D	EM2123080	33.3	**1.49**	***44.1***	1.17	1.47	10.8	1.29	0.11	0.5	0.61	2.01	0.39	<0.02	<0.02	<0.02	<0.02
			0937_QC210_211115	Interlab_D	842318	49	**1.4**	***63***	1.2	1.4	14	1.3	<1	0.54	0.65	2.1	0.46	0.01	<0.01	<0.01	<0.01
			0937_SW209_211115	Normal	EM2123080	33.1	**1.48**	***43.8***	1.36	1.27	10.7	1.23	0.11	0.5	0.62	2.24	0.42	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_SW209_220222	Normal	EM2203247	13.3	0.21	***16.5***	0.6	0.33	3.16	0.14	0.23	<0.2	0.22	0.87	0.1	<0.04	<0.04	<0.04	<0.04
		23 Aug 2022	0937_SW209_220823	Normal	EM2216476	4.70	0.04	***5.17***	0.14	0.06	0.47	0.05	0.14	<0.1	0.04	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW209_221124	Normal	EM2223510	24.7	**0.58**	***38.9***	3.86	4.01	14.2	1.21	1.53	0.3	1.13	4.40	0.49	<0.02	<0.02	0.02	0.06
		17 Nov 2023	0937_QC117_231117	Field_D	EM2320952	15.2	0.40	***19.6***	1.04	0.68	4.41	0.38	0.17	0.4	0.51	1.17	0.18	<0.04	<0.04	<0.04	<0.04
			0937_QC217_231117	Interlab_D	1048259	11	0.33	***14.2***	0.76	0.84	3.2	0.23	0.07	0.80	0.50	0.89	0.14	<0.01	<0.01	<0.01	<0.01
			0937_SW209_231117	Normal	EM2320952	12.7	0.34	***17.2***	1.48	0.75	4.52	0.45	0.16	0.4	0.43	1.25	0.15	<0.02	<0.02	<0.02	<0.02
SW216	On-Site	21 Oct 2016	SW216	Normal	EM1612570	14	0.07	***17.11***	0.31	0.27	3.11	0.16	<0.02	<0.1	0.06	0.19	0.03	<0.02	<0.02	<0.02	<0.02
		03 Aug 2021	0937_SW216_210803	Normal	EM2115476	1.59	0.03	***2.72***	0.15	0.11	1.13	0.08	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_SW216_220217	Normal	EM2202703	3.1	0.2	***4.51***	0.19	0.13	1.41	0.09	<0.02	0.2	0.1	0.31	0.05	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW216_221124	Normal	EM2223510	3.56	0.06	***4.76***	0.12	0.09	1.20	0.09	<0.02	<0.1	0.06	0.14	0.03	<0.02	<0.02	<0.02	<0.02
SW217	On-Site	16 Nov 2021	0937_SW217_211116	Normal	EM2123080	5.81	0.13	***7.69***	0.23	0.22	1.88	0.14	<0.02	1.0	0.53	0.41	0.03	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_SW217_220826	Normal	EM2216476	9.77	0.30	***17.8***	0.95	0.80	8.06	0.34	<0.02	0.9	0.82	1.15	0.13	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW222	On-Site	12 Oct 2016	SW222	Normal	EM1612198	0.48	0.02	**0.58**	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW222_20200616	Normal	EM2010514	2.89	0.07	***4.97***	0.32	0.26	2.08	0.14	<0.02	0.4	<0.02	0.45	0.04	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW222_210128	Normal	EM2101229	0.30	0.01	**0.77**	0.06	0.03	0.47	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_SW222_210713	Normal	EM2113872-AB	2.11	0.11	***4.58***	0.49	0.27	2.47	0.08	<0.02	<0.1	0.17	0.67	0.06	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_QC112_211115	Field_D	EM2123080	1.46	0.04	***2.47***	0.17	0.13	1.01	0.06	<0.02	<0.1	0.12	0.23	0.03	<0.02	<0.02	<0.02	<0.02
			0937_QC212_211115	Interlab_D	842318	2.2	0.05	***3.4***	0.21	0.17	1.2	0.06	<0.01	0.14	0.12	0.29	0.03	<0.01	<0.01	<0.01	<0.01
			0937_SW222_211115	Normal	EM2123080	1.46	0.04	***2.44***	0.18	0.11	0.98	0.06	<0.02	<0.1	0.10	0.23	0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_QC110_220217	Field_D	EM2202703	0.39	<0.01	**0.49**	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	0.11	0.19	0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC210_220217	Interlab_D	864735	0.42	0.01	**0.53**	0.02	0.01	0.11	<0.01	<0.01	0.12	0.15	0.14	0.03	<0.01	<0.01	<0.01	<0.01
			0937_SW222_220217	Normal	EM2202703	0.36	<0.01	**0.46**	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	0.08	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC108_220525	Field_D	EM2210316	0.69	0.01	**1.00**	0.04	0.03	0.31	<0.02	<0.02	<0.1	0.97	0.97	0.14	<0.02	<0.02	<0.02	<0.02
			0937_QC208_220525	Interlab_D	893740	0.38	<0.01	**0.56**	0.02	0.02	0.18	0.01	<0.01	0.11	0.85	0.76	0.10	<0.01	<0.01	<0.01	<0.01
			0937_SW222_220525	Normal	EM2210316	0.52	0.01	**0.74**	0.02	0.02	0.22	<0.02	<0.02	<0.1	1.37	0.94	0.15	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW222_220824	Normal	EM2216476	1.52	0.04	***2.56***	0.16	0.12	1.04	0.05	<0.02	<0.1	0.23	0.23	0.05	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW222_221124	Normal	EM2223510	0.87	0.03	**1.56**	0.11	0.09	0.69	0.03	<0.02	0.2	0.40	1.10	0.07	<0.02	<0.02	<0.02	<0.02
SW223	On-Site	12 Oct 2016	SW223	Normal	EM1612198	3.52	0.12	***5.78***	0.28	0.25	2.26	0.12	<0.02	<0.1	<0.02	0.39	0.04	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW223_20200317	Normal	EM2004711	0.48	0.01	**0.68**	0.03	0.03	0.20	<0.02	<0.02	<0.1	0.08	0.44	0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW223_20200616	Normal	EM2010514	0.82	0.01	**0.98**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW223_20200623	Normal	EM2010697																
		10 Nov 2020	0937_SW223_201110	Normal	EM2020050	0.13	<0.01	**0.13**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW223_210128	Normal	EM2101229	0.11	<0.01	**0.22**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_QC109_20210428	Field_D	EM2107858	0.18	<0.01	**0.37**	0.02	<0.02	0.19	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_ SW223_20210428	Normal	EM2107858	0.23	0.01	**0.40**	0.03	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
			QC209_20210428	Interlab_D	792537	0.26	<0.01	**0.45**	0.02	0.02	0.19	<0.01	<0.01	<0.05	0.02	0.05	0.01	<0.01	<0.01	<0.01	<0.01
		14 Jul 2021	0937_QC208_210713	Interlab_D	811260	2.3	0.12	***5.4***	0.65	0.62	3.1	0.13	<0.01	0.27	0.33	1.1	0.10	<0.01	<0.01	<0.01	<0.01
			0937_SW223_210714	Normal	EM2113872-AB	1.54	0.09	***3.76***	0.53	0.25	2.22	0.05	<0.02	<0.1	0.25	0.70	0.09	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_SW223_211115	Normal	EM2123080	1.37	0.04	***2.21***	0.14	0.09	0.84	0.05	<0.02	<0.1	0.08	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_QC109_220217	Field_D	EM2202703	0.29	<0.01	**0.4**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.11	0.17	0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC209_220217	Interlab_D	864735	0.32	0.01	**0.43**	0.02	0.01	0.11	<0.01	<0.01	0.12	0.17	0.15	0.03	<0.01	<0.01	<0.01	<0.01
			0937_SW223_220217	Normal	EM2202703	0.29	<0.01	**0.39**	<0.02	<0.02	0.1	<0.02	<0.02	<0.1	0.09	0.16	0.02	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC109_220525	Field_D	EM2210316	0.46	0.01	**0.72**	0.02	0.02	0.26	<0.02	<0.02	<0.1	0.95	0.69	0.10	<0.02	<0.02	<0.02	<0.02
			0937_QC209_220525	Interlab_D	893740	0.31	<0.01	**0.48**	0.02	0.02	0.17	0.01	<0.01	0.07	0.53	0.37	0.07	<0.01	<0.01	<0.01	<0.01
			0937_SW223_220525	Normal	EM2210316	0.35	<0.01	**0.53**	<0.02	<0.02	0.18	<0.02	<0.02	<0.1	0.79	0.43	0.07	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_QC105_220824	Field_D	EM2216476	1.08	0.03	**1.68**	0.14	0.07	0.60	0.04	<0.02	<0.1	0.18	0.20	0.03	<0.02	<0.02	<0.02	<0.02
			0937_QC205_220824	Interlab_D	922647	1.6	0.03	***2.4***	0.11	0.11	0.80	0.06	<0.01	0.07	0.16	0.26	0.04	<0.01	<0.01	<0.01	<0.01
			0937_SW223_220824	Normal	EM2216476	1.18	0.03	**1.90**	0.11	0.09	0.72	0.04	<0.02	<0.1	0.17	0.17	0.04	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW223_221124	Normal	EM2223510	0.91	0.03	**1.43**	0.08	0.06	0.52	0.03	<0.02	<0.1	0.26	0.52	0.06	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_SW223_231116	Normal	EM2320952	0.46	0.01	**0.74**	0.05	0.03	0.28	<0.02	<0.02	<0.1	0.32	0.54	0.05	<0.02	<0.02	<0.02	<0.02
SW226	On-Site	12 Nov 2021	0937_SW226_211112	Normal	EM2123080	2.94	0.07	***4.29***	0.26	0.19	1.35	0.09	<0.02	0.1	0.11	0.36	0.03	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW226_220823	Normal	EM2216476	22.2	**0.64**	***36.6***	3.44	2.72	14.4	0.66	0.19	2.5	2.34	5.30	0.41	<0.04	<0.04	<0.04	<0.04
		23 Nov 2022	0937_QC206_221123	Interlab_D	945182	32	**0.89**	***53***	4.5	3.3	21	0.87	0.06	3.0	2.2	5.9	0.72	0.02	<0.01	<0.01	<0.01
			0937_SW226_221123	Normal	EM2223510	36.3	**1.09**	***63.7***	5.69	4.55	27.4	1.30	0.29	2.6	2.55	7.22	0.63	<0.04	<0.04	<0.04	<0.04

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	2													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW227	On-Site	14 Oct 2016	SW227	Normal	EM1612198	1.72	0.22	***2.59***	0.1	0.08	0.87	0.05	<0.02	<0.1	0.5	0.45	0.28	<0.02	<0.02	<0.02	<0.02
		25 Nov 2019	0937_SW227_191125	Normal	EM1920529	0.33	0.05	**0.54**	0.02	0.02	0.21	<0.02	<0.02	0.1	0.26	0.26	0.10	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_SW227_20200317	Normal	EM2004711	0.75	0.08	**0.93**	<0.02	0.03	0.18	<0.02	<0.02	0.1	0.30	0.28	0.13	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW227_200616	Normal	EM2010514	0.44	0.09	**0.70**	0.03	0.03	0.26	<0.02	<0.02	0.2	0.40	0.38	0.16	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_SW227_201110	Normal	EM2020050	0.40	0.06	**0.61**	0.02	0.02	0.21	<0.02	<0.02	<0.1	0.30	0.27	0.14	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW227_210128	Normal	EM2101229	0.37	0.09	**0.63**	0.04	0.03	0.26	<0.02	<0.02	0.2	0.48	0.39	0.22	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_ SW227_20210428	Normal	EM2107858	0.41	0.08	**0.66**	0.04	0.02	0.25	<0.02	<0.02	0.2	0.35	0.38	0.16	<0.02	<0.02	<0.02	<0.02
		14 Jul 2021	0937_QC111_210714	Field_D	EM2113872-AB	0.42	0.04	**0.69**	0.06	0.03	0.27	<0.02	<0.02	<0.1	0.13	0.17	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC211_210714	Interlab_D	811260	0.54	0.06	**0.81**	0.05	0.05	0.27	0.02	<0.01	0.13	0.17	0.19	0.06	<0.01	<0.01	<0.01	<0.01
			0937_SW227_210714	Normal	EM2113872-AB	0.45	0.06	**0.73**	0.10	0.04	0.28	<0.02	<0.02	<0.1	0.12	0.16	0.07	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_SW227_211116	Normal	EM2123080	0.56	0.05	**0.83**	0.05	0.04	0.27	<0.02	<0.02	<0.1	0.12	0.14	0.05	<0.02	<0.02	<0.02	<0.02
		21 Feb 2022	0937_SW227_220221	Normal	EM2203247	0.8	0.07	**1.14**	0.08	0.05	0.34	<0.02	<0.02	<0.1	0.16	0.18	0.06	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC110_220525	Field_D	EM2210316	1.28	0.10	**2.00**	0.11	0.09	0.72	0.03	0.03	0.1	0.29	0.36	0.11	<0.02	<0.02	<0.02	<0.02
			0937_QC210_220525	Interlab_D	893740	1.1	0.08	**1.49**	0.06	0.05	0.39	0.03	<0.01	0.12	0.19	0.18	0.08	0.01	<0.01	<0.01	<0.01
			0937_SW227_220525	Normal	EM2210316	0.79	0.08	**1.17**	0.10	0.05	0.38	0.03	<0.02	<0.1	0.18	0.22	0.08	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_QC106_220824	Field_D	EM2216476	0.51	0.06	**0.77**	0.06	0.04	0.26	<0.02	<0.02	<0.1	0.18	0.15	0.06	<0.02	<0.02	<0.02	<0.02
			0937_QC206_220824	Interlab_D	922647	0.68	0.07	**1.02**	0.06	0.04	0.34	0.02	<0.01	0.09	0.16	0.19	0.07	<0.01	<0.01	<0.01	<0.01
			0937_SW227_220824	Normal	EM2216476	0.53	0.06	**0.85**	0.06	0.04	0.32	<0.02	<0.02	<0.1	0.17	0.13	0.08	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW227_221124	Normal	EM2223510	0.63	0.08	**0.99**	0.06	0.05	0.36	<0.02	<0.02	<0.1	0.17	0.20	0.09	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_QC115_231116	Field_D	EM2320952	0.71	0.06	**1.05**	0.06	0.05	0.34	<0.02	<0.02	<0.1	0.12	0.17	0.07	<0.02	<0.02	<0.02	<0.02
			0937_QC215_231116	Interlab_D	1048259	0.72	0.06	**1.01**	0.05	0.04	0.29	0.02	<0.01	0.09	0.13	0.14	0.06	<0.01	<0.01	<0.01	<0.01
			0937_SW227_231116	Normal	EM2320952	0.70	0.07	**0.99**	0.05	0.04	0.29	<0.02	<0.02	<0.1	0.14	0.17	0.07	<0.02	<0.02	<0.02	<0.02
SW230	On-Site	13 Oct 2016	SW230	Normal	EM1612198	0.82	0.04	**1.56**	0.13	0.09	0.74	0.03	<0.02	<0.1	0.06	0.18	0.04	<0.02	<0.02	<0.02	<0.02
		25 Nov 2019	0937_SW230_191125	Normal	EM1920529	0.49	0.01	**0.70**	0.02	0.02	0.21	<0.02	<0.02	<0.1	0.04	0.08	0.02	<0.02	<0.02	<0.02	<0.02
		18 Mar 2020	0937_SW230_20200318	Normal	EM2004711	0.31	<0.01	**0.44**	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_SW230_200617	Normal	EM2010514	0.41	<0.01	**0.58**	<0.02	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_SW230_201111	Normal	EM2020050	1.05	0.03	**1.84**	0.17	0.11	0.79	0.04	<0.02	<0.1	0.09	0.27	0.02	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_SW230_210201	Normal	EM2101575	0.29	<0.01	**0.46**	0.02	<0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_ SW230_20210427	Normal	EM2107858	0.72	0.01	**0.96**	0.04	<0.02	0.24	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_SW230_210715	Normal	EM2113872-AB	0.90	0.02	**1.30**	0.09	0.06	0.40	0.02	<0.02	<0.1	<0.02	0.14	0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW230_211112	Normal	EM2123080	0.38	<0.01	**0.55**	0.03	0.02	0.17	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Feb 2022	0937_SW230_220218	Normal	EM2202703	0.64	0.02	**0.9**	0.04	0.03	0.26	<0.02	<0.02	<0.1	0.79	0.74	0.12	<0.02	<0.02	<0.02	<0.02
		30 May 2022	0937_SW230_220530	Normal	EM2210316	0.40	<0.01	**0.59**	0.02	<0.02	0.19	<0.02	<0.02	<0.1	0.52	0.30	0.06	<0.02	<0.02	<0.02	<0.02
		22 Aug 2022	0937_SW230_220822_1620	Normal	EM2216498	1.06	0.03	**1.68**	0.13	0.09	0.62	0.03	<0.02	<0.1	0.18	0.25	0.04	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW230_220823	Normal	EM2216476																
			0937_SW230_220823_0855	Normal	EM2216498	0.70	0.02	**1.18**	0.10	0.07	0.48	0.02	<0.02	<0.1	0.09	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW230_220823_1115	Normal	EM2216498	0.70	0.02	**1.14**	0.11	0.06	0.44	0.02	<0.02	<0.1	0.09	0.17	0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW230_220823_1545	Normal	EM2216498	0.81	0.02	**1.40**	0.16	0.08	0.59	0.03	<0.02	<0.1	0.11	0.21	0.03	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW230_220824_0940	Normal	EM2216498	1.26	0.05	***2.23***	0.23	0.16	0.97	0.04	<0.02	0.2	0.24	0.40	0.05	<0.02	<0.02	<0.02	<0.02
			0937_SW230_220824_1540	Normal	EM2216498	1.28	0.05	***2.39***	0.25	0.20	1.11	0.05	<0.02	0.2	0.26	0.43	0.05	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW230_220825_0855	Normal	EM2216498	1.46	0.06	***2.80***	0.31	0.22	1.34	0.07	<0.02	0.2	0.35	0.52	0.06	<0.02	<0.02	<0.02	<0.02
			0937_SW230_220825_1545	Normal	EM2216498	1.56	0.07	***3.00***	0.32	0.25	1.44	0.07	<0.02	0.2	0.36	0.57	0.07	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_SW230_220826_0940	Normal	EM2216498	1.62	0.08	***3.30***	0.34	0.24	1.68	0.08	<0.02	0.2	0.34	0.63	0.08	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_SW230_221129	Normal	EM2223972	0.76	0.03	**1.39**	0.12	0.09	0.63	0.03	<0.02	0.1	0.50	0.64	0.07	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_QC105_231115	Field_D	EM2320952	0.42	0.01	**0.63**	0.03	0.02	0.21	<0.02	<0.02	<0.1	0.44	0.47	0.07	<0.02	<0.02	<0.02	<0.02
			0937_QC205_231115	Interlab_D	1048259	0.42	0.01	**0.61**	0.03	0.02	0.19	<0.01	<0.01	0.06	0.47	0.43	0.05	<0.01	<0.01	<0.01	<0.01
			0937_SW230_231115	Normal	EM2320952	0.42	0.01	**0.66**	0.03	0.02	0.24	<0.02	<0.02	<0.1	0.55	0.46	0.06	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW231	On-Site	13 Oct 2016	QCA296	Field_D	EM1612198	6.59	0.24	***20.69***	0.9	1.14	14.1	0.24	<0.05	<0.1	0.13	0.84	0.12	<0.05	<0.05	<0.05	<0.05
			QCB297	Interlab_D	519950	6.9	0.17	***15.6***	0.76		8.7		<0.01	<0.1	0.14	1.1	0.09	<0.01	<0.01	<0.01	<0.01
			SW231	Normal	EM1612198	9.04	0.2	***23.54***	0.85	1.12	14.5	0.3	<0.05	<0.1	0.12	0.88	0.12	<0.05	<0.05	<0.05	<0.05
		26 Nov 2019	0937_SW231_191126	Normal	EM1920529	2.05	0.03	***3.27***	0.12	0.13	1.22	0.05	<0.02	<0.1	<0.02	0.21	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Mar 2020	0937_SW231_20200318	Normal	EM2004711	2.27	0.02	***3.49***	0.17	0.34	1.22	0.04	<0.02	<0.1	0.05	0.30	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW231_200616	Normal	EM2010514	4.02	0.09	***6.24***	0.28	0.27	2.22	0.10	<0.02	<0.1	<0.02	0.57	0.03	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_SW231_201110	Normal	EM2020050	4.73	0.04	***6.13***	0.12	0.14	1.40	0.08	<0.02	<0.1	0.03	0.29	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_QC107_210129	Field_D	EM2101229	2.81	0.06	***4.16***	0.20	0.15	1.35	<0.04	<0.04	<0.2	<0.04	0.34	<0.04	<0.04	<0.04	<0.04	<0.04
			0937_QC207_210128	Interlab_D	770470	3.1	0.06	***5.4***	0.20	0.18	2.3	0.08	<0.01	0.09	0.13	0.37	0.03	<0.01	<0.01	<0.01	<0.01
			0937_SW231_210129	Normal	EM2101229	2.86	0.06	***4.31***	0.17	0.15	1.45	0.07	<0.02	0.1	0.11	0.34	0.03	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_ SW231 _20210426	Normal	EM2107858	4.12	0.04	***5.07***	0.08	0.07	0.95	0.09	<0.02	<0.1	0.02	0.16	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_SW231_210715	Normal	EM2113872-AB	0.12	<0.01	***0.22***	0.02	<0.02	0.10	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW231_211112	Normal	EM2123080	0.42	<0.01	***0.55***	0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Feb 2022	0937_QC116_220218	Field_D	EM2202703	3.53	0.05	***5.01***	0.12	0.11	1.48	0.08	<0.02	<0.1	0.04	0.29	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC216_220218	Interlab_D	864735	3.6	0.06	***4.8***	0.1	0.12	1.2	0.06	<0.01	0.11	0.06	0.17	0.02	<0.01	<0.01	<0.01	<0.01
			0937_SW231_220218	Normal	EM2202703	3.12	0.05	***4.31***	0.1	0.1	1.19	0.06	<0.02	<0.1	<0.02	0.16	<0.02	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_SW231_220526	Normal	EM2210316	4.65	0.16	***9.98***	0.46	0.62	5.33	0.21	<0.02	<0.1	0.21	0.82	0.07	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW231_220823	Normal	EM2216476	0.20	<0.01	**0.31**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_SW231_221128	Normal	EM2223972	6.54	0.28	***17.4***	0.77	1.14	10.9	0.32	<0.02	<0.1	0.18	1.06	0.11	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_SW231_231120	Normal	EM2320952	6.13	0.18	***12.4***	0.45	0.69	6.27	0.27	<0.02	<0.1	0.11	0.72	0.07	<0.02	<0.02	<0.02	<0.02
SW233	On-Site	13 Oct 2016	SW233	Normal	EM1612198	7.53	0.24	***20.83***	0.8	1.03	13.3	0.26	<0.05	<0.1	0.11	0.86	0.1	<0.05	<0.05	<0.05	<0.05
		26 Nov 2019	0937_SW233_191126	Normal	EM1920529	1.24	0.01	**1.92**	0.09	0.08	0.68	0.04	<0.02	<0.1	0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Mar 2020	0937_SW233_20200326	Normal	EM2005033	2.26	0.03	***3.41***	0.14	0.21	1.15	0.04	<0.02	<0.1	0.05	0.28	0.02	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW233_200616	Normal	EM2010514	2.18	0.03	***3.04***	0.14	0.12	0.86	0.04	<0.02	<0.1	<0.02	0.25	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW233_200623	Normal	EM2010697																
		10 Nov 2020	0937_QC108_201110	Field_D	EM2020050	2.17	0.02	***2.81***	0.08	0.07	0.64	0.03	<0.02	<0.1	0.03	0.17	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_QC208_201110	Interlab_D	757178	2.9	0.04	***3.62***	0.09	0.08	0.72	0.03	<0.01	0.10	0.09	0.23	0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW233_201110	Normal	EM2020050	2.19	0.02	***2.94***	0.11	0.08	0.75	0.03	<0.02	<0.1	0.03	0.20	<0.02	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW233_210128	Normal	EM2101229	2.10	0.03	***2.97***	0.12	0.10	0.87	0.04	<0.02	<0.1	0.06	0.22	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_ SW233 _20210426	Normal	EM2107858	1.11	0.02	**1.74**	0.13	0.06	0.63	0.02	<0.02	<0.1	0.03	0.17	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_SW233_210715	Normal	EM2113872-AB	1.78	0.09	***4.96***	0.40	0.36	3.18	0.09	<0.02	<0.1	0.10	0.47	0.04	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_SW233_211115	Normal	EM2123080	0.66	0.02	**1.15**	0.04	0.04	0.49	0.02	<0.02	<0.1	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_SW233_220217	Normal	EM2202703	2.8	0.1	***5.9***	0.46	0.4	3.1	0.12	<0.02	<0.1	0.13	0.66	0.05	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_SW233_220526	Normal	EM2210316	2.14	0.07	***5.27***	0.31	0.33	3.13	0.10	<0.02	<0.1	0.13	0.45	0.04	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW233_220825	Normal	EM2216476	1.03	0.02	**1.85**	0.06	0.08	0.82	0.03	<0.02	<0.1	0.02	0.08	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW233_221124	Normal	EM2223510	3.35	0.09	***6.23***	0.24	0.28	2.88	0.12	<0.02	<0.1	0.06	0.37	0.03	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_SW233_231116	Normal	EM2320952	2.49	0.09	***5.88***	0.32	0.46	3.39	0.14	<0.02	<0.1	0.09	0.47	0.04	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW238	On-Site	13 Oct 2016	SW238	Normal	EM1612198	4.02	0.15	***12.36***	0.8	0.72	8.34	0.23	<0.05	<0.1	0.1	0.58	0.07	<0.05	<0.05	<0.05	<0.05
		22 Nov 2019	0937_SW238_191122	Normal	EM1920034	2.62	0.04	***3.52***	0.11	0.10	0.90	0.06	<0.02	<0.1	0.15	0.28	0.05	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW238_20200616	Normal	EM2010514	1.50	0.02	***2.22***	0.10	0.10	0.72	0.03	<0.02	0.2	<0.02	0.19	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_SW238	Normal	EM2020050	1.55	0.02	***2.23***	0.08	0.07	0.68	0.03	<0.02	<0.1	0.07	0.20	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_SW238_210129	Normal	EM2101229	1.66	0.03	***2.13***	0.06	0.04	0.47	0.04	<0.02	<0.1	0.12	0.20	0.03	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_ SW238 _20210426	Normal	EM2107858	1.06	0.02	**1.60**	0.10	0.05	0.54	0.03	<0.02	<0.1	0.04	0.15	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_QC118_210715	Field_D	EM2113872-AB	1.00	0.04	***2.53***	0.16	0.14	1.53	0.04	<0.02	<0.1	0.03	0.27	0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW238_210715	Normal	EM2113872-AB	0.75	0.04	**1.97**	0.17	0.13	1.22	0.04	<0.02	<0.1	<0.02	0.23	0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW238_211112	Normal	EM2123080	1.02	0.02	**1.38**	0.04	0.04	0.36	<0.02	<0.02	<0.1	0.06	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Feb 2022	0937_QC118_220218	Field_D	EM2202703	3.63	0.11	***7.49***	0.46	0.42	3.86	0.14	<0.02	0.1	0.19	0.98	0.07	<0.02	<0.02	<0.02	<0.02
			0937_QC218_220218	Interlab_D	864735	4.1	0.15	**7.7**	0.39	0.51	3.6	0.12	<0.01	0.18	0.2	0.62	0.07	<0.01	<0.01	<0.01	<0.01
			0937_SW238_220218	Normal	EM2202703	3.25	0.11	***6.68***	0.4	0.41	3.43	0.12	<0.02	<0.1	0.18	0.74	0.05	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_SW238_220526	Normal	EM2210316	1.38	0.06	***3.67***	0.24	0.27	2.29	0.07	<0.02	<0.1	0.11	0.38	0.04	<0.02	<0.02	<0.02	<0.02
		22 Aug 2022	0937_SW238_220822_1500	Normal	EM2216498	0.92	0.03	***2.18***	0.13	0.13	1.26	0.04	<0.02	<0.1	0.03	0.16	0.02	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW238_220823_0755	Normal	EM2216498	0.21	<0.01	**0.32**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW238_220823_1035	Normal	EM2216498	0.27	<0.01	**0.54**	0.03	0.03	0.27	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW238_220823_1505	Normal	EM2216498	0.33	<0.01	**0.48**	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW238_220824_0900	Normal	EM2216498	1.26	0.04	***2.46***	0.12	0.14	1.20	0.05	<0.02	<0.1	0.04	0.18	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW238_220824_1505	Normal	EM2216498	1.20	0.03	***2.11***	0.09	0.10	0.91	0.04	<0.02	<0.1	0.03	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW238_220825_0815	Normal	EM2216498	0.94	0.02	**1.58**	0.11	0.07	0.64	0.04	<0.02	<0.1	0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW238_220825_1510	Normal	EM2216498	0.85	0.02	**1.48**	0.07	0.08	0.63	0.03	<0.02	<0.1	0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_SW238_220826_0910	Normal	EM2216498	0.81	0.02	**1.49**	0.08	0.07	0.68	0.03	<0.02	<0.1	<0.02	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_SW238_221128	Normal	EM2223972	2.74	0.08	***5.68***	0.25	0.31	2.94	0.09	<0.02	<0.1	0.07	0.32	0.06	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_SW238_231120	Normal	EM2320952	1.78	0.07	***4.38***	0.32	0.37	2.60	0.10	<0.02	<0.1	0.07	0.39	0.04	<0.02	<0.02	<0.02	<0.02
SW239	On-Site	13 Oct 2016	SW239	Normal	EM1612198	9.57	0.24	***16.83***	0.6	0.67	7.26	0.35	<0.02	<0.1	0.1	0.5	0.12	<0.02	<0.02	<0.02	<0.02
		26 Nov 2019	0937_SW239_191126	Normal	EM1920529	2.98	0.03	***3.42***	0.04	0.04	0.44	0.06	<0.02	<0.1	0.16	0.40	0.04	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW239_20200616	Normal	EM2010514	5.12	0.13	***7.17***	0.17	0.23	2.05	0.18	0.03	0.2	0.68	0.84	0.14	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_SW239_201110	Normal	EM2020050	12.7	0.21	***16.6***	0.46	0.51	3.92	0.39	0.03	<0.1	0.28	0.83	0.13	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW239_210128	Normal	EM2101229	2.12	0.04	***2.79***	0.07	0.05	0.67	0.05	<0.02	<0.1	0.31	0.47	0.08	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_QC105_20210426	Field_D	EM2107858	4.56	0.08	***6.22***	0.16	0.15	1.66	0.14	0.04	0.1	0.24	0.43	0.06	<0.02	<0.02	<0.02	<0.02
			0937_ SW239 _20210426	Normal	EM2107858	3.68	0.08	***5.17***	0.16	0.13	1.49	0.12	0.02	0.1	0.27	0.44	0.07	<0.02	<0.02	<0.02	<0.02
			QC205_20210426	Interlab_D	792537	6.7	0.09	***8.9***	0.20	0.26	2.2	0.09	<0.01	0.09	0.33	0.54	0.09	<0.01	<0.01	<0.01	<0.01
		15 Jul 2021	0937_SW239_210715	Normal	EM2113872-AB	2.55	0.07	***4.06***	0.24	0.21	1.51	0.10	<0.02	<0.1	<0.02	0.42	0.04	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW239_211112	Normal	EM2123080	0.34	<0.01	**0.48**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_SW239_220217	Normal	EM2202703	3.78	0.09	***5.51***	0.3	0.22	1.73	0.11	<0.02	<0.1	0.33	0.66	0.08	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_SW239_220526	Normal	EM2210316	7.06	0.22	***12.1***	0.76	0.84	5.04	0.31	<0.02	<0.1	0.30	0.94	0.15	<0.02	<0.02	<0.02	<0.02
		22 Aug 2022	0937_SW239_220822_1440	Normal	EM2216498	6.32	0.15	***9.92***	0.49	0.46	3.60	0.25	<0.02	<0.1	0.25	0.60	0.11	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW239_220823_0730	Normal	EM2216498	2.39	0.04	***3.28***	0.12	0.10	0.89	0.06	<0.02	<0.1	0.10	0.15	0.03	<0.02	<0.02	<0.02	<0.02
			0937_SW239_220823_1005	Normal	EM2216498	3.08	0.05	***4.31***	0.14	0.14	1.23	0.08	<0.02	<0.1	0.12	0.21	0.04	<0.02	<0.02	<0.02	<0.02
			0937_SW239_220823_1440	Normal	EM2216498	4.16	0.08	***5.92***	0.23	0.22	1.76	0.13	<0.02	<0.1	0.15	0.31	0.05	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW239_220824_0830	Normal	EM2216498	2.02	0.05	***3.30***	0.17	0.18	1.28	0.08	<0.02	<0.1	0.08	0.25	0.03	<0.02	<0.02	<0.02	<0.02
			0937_SW239_220824_1430	Normal	EM2216498	2.24	0.06	***3.72***	0.18	0.20	1.48	0.08	<0.02	<0.1	0.09	0.26	0.04	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW239_220825_0745	Normal	EM2216498	3.13	0.08	***4.96***	0.24	0.27	1.83	0.13	<0.02	<0.1	0.13	0.35	0.05	<0.02	<0.02	<0.02	<0.02
			0937_SW239_220825_1455	Normal	EM2216498	3.98	0.10	***6.33***	0.32	0.35	2.35	0.16	<0.02	<0.1	0.16	0.42	0.07	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_SW239_220826_0830	Normal	EM2216498	5.67	0.16	***9.77***	0.50	0.52	4.10	0.25	<0.02	<0.1	0.22	0.57	0.11	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW239_221124	Normal	EM2223510	5.95	0.13	***8.82***	0.42	0.38	2.87	0.18	<0.02	<0.1	0.21	0.51	0.09	<0.02	<0.02	<0.02	<0.02
		17 Nov 2023	0937_SW239_231117	Normal	EM2320952	13.8	0.30	***19.3***	0.66	0.70	5.50	0.51	0.17	<0.2	0.20	0.90	0.16	<0.03	<0.03	<0.03	<0.03
SW242	On-Site	12 Oct 2016	SW242	Normal	EM1612198	0.6	<0.01	**0.7**	<0.02	<0.02	0.1	0.2	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		13 Jul 2021	0937_QC209_210713	Interlab_D	811260	1.0	0.02	**1.27**	0.04	0.03	0.27	0.02	<0.01	0.09	0.05	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
		14 Jul 2021	0937_QC109_210714	Field_D	EM2113872-AB	0.76	0.01	**1.00**	0.06	<0.02	0.24	<0.02	<0.02	<0.1	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW242_210714	Normal	EM2113872-AB	0.74	0.01	**0.94**	0.21	0.02	0.20	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW242_211112	Normal	EM2123080	1.45	<0.01	**1.60**	<0.02	<0.02	0.15	<0.02	0.03	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW242_220824	Normal	EM2216476	0.43	<0.01	**0.59**	<0.02	<0.02	0.16	<0.02	<0.02	<0.1	0.03	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_QC204_221123	Interlab_D	945182	1.7	0.02	***2.02***	0.03	0.02	0.32	0.03	<0.01	<0.05	0.03	0.05	0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW242_221123	Normal	EM2223510	1.25	0.02	**1.53**	0.07	0.03	0.28	<0.02	<0.02	<0.1	0.04	0.05	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW246	On-Site	18 Mar 2020	0937_SW246_20200318	Normal	EM2004711	0.66	0.02	**0.98**	0.03	0.05	0.32	0.02	<0.02	<0.1	0.04	0.11	0.05	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_SW246_200617	Normal	EM2010514	0.67	0.02	**1.19**	0.07	0.06	0.52	0.02	<0.02	<0.1	0.05	0.14	0.05	<0.02	<0.02	<0.02	<0.02
		13 Nov 2020	0937_SW246_201111	Normal	EM2020050	0.92	0.02	**1.48**	0.07	0.05	0.56	0.02	<0.02	<0.1	0.05	0.15	0.07	<0.02	<0.02	<0.02	<0.02
		01 Feb 2021	0937_SW246_210201	Normal	EM2101575	0.43	<0.01	**0.66**	0.03	<0.02	0.23	<0.02	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		27 Apr 2021	0937_QC107_20210427	Field_D	EM2107858	0.72	0.02	**1.27**	0.08	0.06	0.55	<0.02	<0.02	<0.1	0.05	0.13	0.04	<0.02	<0.02	<0.02	<0.02
			0937_ SW246_20210427	Normal	EM2107858	0.46	0.02	**0.88**	0.06	0.04	0.42	<0.02	<0.02	<0.1	0.04	0.13	0.04	<0.02	<0.02	<0.02	<0.02
			QC207_20210427	Interlab_D	792537	0.93	0.03	**1.48**	0.07	0.06	0.55	0.01	<0.01	0.06	0.09	0.12	0.04	<0.01	<0.01	<0.01	<0.01
		04 Aug 2021	0937_SW246_210804	Normal	EM2115476	0.52	0.02	**0.88**	0.06	0.03	0.36	<0.02	<0.02	<0.1	0.03	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW246_211112	Normal	EM2123080	0.58	0.01	**1.02**	0.06	0.04	0.44	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		30 May 2022	0937_SW246_220530	Normal	EM2210316	0.53	0.02	**0.99**	0.05	0.05	0.46	0.02	<0.02	<0.1	1.25	0.66	0.37	<0.02	<0.02	<0.02	<0.02
		22 Aug 2022	0937_SW246_220822_1615	Normal	EM2216498	0.35	0.01	**0.59**	0.06	0.03	0.24	<0.02	<0.02	<0.1	0.10	0.12	0.06	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW246_220823	Normal	EM2216476																
			0937_SW246_220823_0855	Normal	EM2216498	0.15	<0.01	**0.28**	0.03	<0.02	0.13	<0.02	<0.02	<0.1	0.05	0.06	0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW246_220823_1115	Normal	EM2216498	0.16	<0.01	**0.32**	0.04	<0.02	0.16	<0.02	<0.02	<0.1	0.07	0.08	0.03	<0.02	<0.02	<0.02	<0.02
			0937_SW246_220823_1455	Normal	EM2216498	0.18	0.01	**0.37**	0.03	0.02	0.19	<0.02	<0.02	<0.1	0.07	0.09	0.03	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW246_220824_0940	Normal	EM2216498	0.29	0.02	**0.58**	0.06	0.04	0.29	<0.02	<0.02	<0.1	0.08	0.12	0.03	<0.02	<0.02	<0.02	<0.02
			0937_SW246_220824_1540	Normal	EM2216498	0.28	0.02	**0.54**	0.07	0.04	0.26	<0.02	<0.02	<0.1	0.08	0.11	0.03	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW246_220825_0855	Normal	EM2216498	0.25	0.02	**0.51**	0.06	0.04	0.26	<0.02	<0.02	<0.1	0.08	0.11	0.03	<0.02	<0.02	<0.02	<0.02
			0937_SW246_220825_1545	Normal	EM2216498	0.25	0.02	**0.52**	0.05	0.03	0.27	<0.02	<0.02	<0.1	0.08	0.10	0.03	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_SW246_220826_0940	Normal	EM2216498	0.25	0.02	**0.57**	0.08	0.04	0.32	<0.02	<0.02	<0.1	0.07	0.13	0.04	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_SW246_221129	Normal	EM2223972	0.57	0.02	**1.00**	0.06	0.05	0.43	<0.02	<0.02	0.1	1.03	1.56	0.21	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_SW246_231115	Normal	EM2320952	0.97	0.04	**1.58**	0.07	0.07	0.61	0.04	<0.02	0.1	1.22	1.10	0.33	<0.02	<0.02	<0.02	<0.02
SW251	On-Site	13 Oct 2016	SW251	Normal	EM1612198	1.12	<0.01	***11.42***	0.37	0.44	4.31	0.13	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
						6.79	0.15		0.54	0.55	4.63	0.21			0.08	0.32	0.07				
		22 Nov 2019	0937_SW251_191122	Normal	EM1920034	3.37	0.07	***4.32***	0.06	0.08	0.95	0.09	<0.02	<0.1	0.43	0.55	0.15	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW251_20200320	Normal	EM2004711	0.76	0.02	**1.06**	0.04	0.05	0.30	<0.02	<0.02	<0.1	0.06	0.11	0.02	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_SW251_200617	Normal	EM2010514	0.54	0.02	**0.83**	0.04	0.03	0.29	<0.02	<0.02	<0.1	0.03	0.10	0.02	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW251_200623	Normal	EM2010697																
		12 Nov 2020	0937_SW251_201112	Normal	EM2020050	1.78	0.02	***2.32***	0.07	0.04	0.54	0.04	<0.02	<0.1	0.21	0.26	0.06	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_SW251_210129	Normal	EM2101229	0.11	<0.01	**0.16**	0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ SW251 _20210420	Normal	EM2107085	0.47	0.02	**0.97**	0.12	0.05	0.50	0.02	<0.02	<0.1	0.06	0.19	0.02	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW251_210805	Normal	EM2115476	2.19	0.05	***3.13***	0.12	0.10	0.94	0.06	<0.02	<0.1	0.05	0.21	0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_SW251_211116	Normal	EM2123080	1.74	0.05	***2.65***	0.10	0.11	0.91	0.05	<0.02	<0.1	0.08	0.17	0.03	<0.02	<0.02	<0.02	<0.02
		21 Feb 2022	0937_SW251_220221	Normal	EM2203247	4.64	0.24	***9.88***	0.72	0.71	5.24	0.32	<0.02	0.2	0.52	1.25	0.21	<0.02	<0.02	<0.02	<0.02
		31 May 2022	0937_SW251_220530	Normal	EM2210316	5.92	0.22	***12.8***	0.85	0.82	6.87	0.30	<0.02	0.1	0.52	1.28	0.22	<0.02	<0.02	<0.02	<0.02
		22 Aug 2022	0937_SW251_220822_1600	Normal	EM2216498	2.56	0.07	***4.05***	0.20	0.18	1.49	0.09	<0.02	<0.1	0.11	0.26	0.04	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW251_220823_1615	Normal	EM2216498	2.90	0.06	***4.07***	0.16	0.15	1.17	0.09	<0.02	<0.1	0.11	0.23	0.04	<0.02	<0.02	<0.02	<0.02
			0937_SW251_220823_2215	Normal	EM2216498	1.80	0.04	***2.77***	0.10	0.11	0.97	0.05	<0.02	<0.1	0.08	0.16	0.03	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW251_220824_0415	Normal	EM2216498	1.35	0.03	**1.92**	0.07	0.08	0.57	0.04	<0.02	<0.1	0.05	0.12	<0.02	<0.02	<0.02	<0.02	<0.02
			0937_SW251_220824_1615	Normal	EM2216498	1.35	0.03	**1.94**	0.07	0.08	0.59	0.04	<0.02	<0.1	0.05	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW251_220825_1650	Normal	EM2216498	1.77	0.05	***3.29***	0.17	0.15	1.52	0.07	<0.02	<0.1	0.07	0.24	0.03	<0.02	<0.02	<0.02	<0.02
		26 Aug 2022	0937_SW251_220823_1320	Normal	EM2216498	1.77	0.05	***3.15***	0.15	0.14	1.38	0.07	<0.02	<0.1	0.06	0.21	0.03	<0.02	<0.02	<0.02	<0.02
		30 Nov 2022	0937_SW251_221130	Normal	EM2223972	2.80	0.11	***6.05***	0.38	0.42	3.25	0.13	<0.02	<0.1	0.18	0.50	0.08	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_QC107_231115	Field_D	EM2320952	6.15	0.17	***9.45***	0.50	0.48	3.30	0.27	<0.02	<0.1	0.15	0.58	0.12	<0.02	<0.02	<0.02	<0.02
			0937_QC207_231115	Interlab_D	1048259	6.4	0.16	***9.4***	0.40	0.40	3.0	0.19	<0.01	0.09	0.17	0.51	0.08	<0.01	<0.01	<0.01	<0.01
			0937_SW251_231115	Normal	EM2320952	4.74	0.16	***8.06***	0.41	0.49	3.32	0.20	<0.02	<0.1	0.18	0.58	0.10	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW252	On-Site	12 Oct 2016	QCA300	Field_D	EM1612198	3.92	0.16	***6.41***	0.21	0.16	2.49	0.19	<0.02	<0.1	<0.02	0.18	0.04	<0.02	<0.02	<0.02	<0.02
			QCB301	Interlab_D	519950	3.9	<0.3	**6**	<0.3		2.1		<0.3	<1.5	<0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
			SW252	Normal	EM1612198	3.57	0.15	***6.13***	0.21	0.18	2.56	0.14	<0.02	<0.1	<0.02	0.22	0.04	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_QC102_200617	Field_D	EM2010514	2.52	<0.05	***2.86***	0.07	<0.05	0.34	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
			0937_QC202_200617	Interlab_D	726765	1.5	0.01	**1.72**	0.03	0.02	0.22	0.02	<0.01	<0.05	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
			0937_SW252_200617	Normal	EM2010514	2.11	<0.05	***2.43***	0.05	<0.05	0.32	<0.05	<0.05	<0.2	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05
		15 Jul 2021	0937_SW252_210715	Normal	EM2113872-AB	0.50	<0.01	**0.55**	<0.02	<0.02	0.05	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_SW252_211116	Normal	EM2123080	0.41	<0.01	**0.56**	<0.02	<0.02	0.15	<0.02	<0.02	<0.1	0.03	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
		25 Aug 2022	0937_SW252_220825	Normal	EM2216476	0.26	<0.01	**0.39**	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_SW252_221129	Normal	EM2223972	0.86	0.02	**1.15**	0.03	<0.02	0.29	0.03	<0.02	<0.1	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02
		15 Nov 2023	0937_SW252_231115	Normal	EM2320952	0.60	<0.01	**0.77**	<0.02	<0.02	0.17	<0.02	<0.02	<0.1	0.05	0.03	<0.02	<0.02	<0.02	<0.02	<0.02
SW256	On-Site	13 Oct 2016	SW256	Normal	EM1612198	10.1	0.18	***17.85***	0.42	0.61	7.75	0.29	<0.02	<0.1	0.08	0.43	0.09	<0.02	<0.02	<0.02	<0.02
		16 Jun 2020	0937_SW256_20200616	Normal	EM2010514	3.62	0.09	***4.94***	0.12	0.15	1.32	0.08	0.03	0.2	0.41	0.59	0.10	<0.02	<0.02	<0.02	<0.02
		10 Nov 2020	0937_QC104_201110	Field_D	EM2020050	5.30	0.18	***9.26***	0.47	0.48	3.96	0.23	<0.02	<0.1	0.44	0.90	0.14	<0.02	<0.02	<0.02	<0.02
			0937_QC204_201110	Interlab_D	757178	10	0.30	***16.2***	0.52	0.66	6.2	0.21	0.06	0.20	0.55	1.1	0.17	<0.01	<0.01	<0.01	<0.01
			0937_SW256_201110	Normal	EM2020050	5.61	0.18	***9.73***	0.47	0.49	4.12	0.22	<0.02	<0.1	0.43	0.93	0.14	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_SW256_210128	Normal	EM2101229	4.55	0.08	***5.93***	0.11	0.13	1.38	0.12	0.12	0.1	0.57	0.60	0.14	<0.02	<0.02	<0.02	<0.02
		26 Apr 2021	0937_QC102_20210426	Field_D	EM2107858	4.36	0.16	***7.03***	0.28	0.23	2.67	0.18	0.04	0.1	0.33	0.82	0.12	<0.02	<0.02	<0.02	<0.02
			0937_ SW256_20210426	Normal	EM2107858	3.84	0.15	***6.50***	0.24	0.24	2.66	0.17	0.04	0.1	0.30	0.74	0.11	<0.02	<0.02	<0.02	<0.02
			QC202_20210426	Interlab_D	792537	3.3	0.16	**6**	0.25	0.29	2.7	0.08	<0.01	0.12	0.44	0.74	0.11	<0.01	<0.01	<0.01	<0.01
		14 Jul 2021	0937_QC115_210714	Field_D	EM2113872-AB	2.24	0.07	***4.17***	0.20	0.18	1.93	0.08	<0.02	<0.1	0.07	0.37	0.04	<0.02	<0.02	<0.02	<0.02
			0937_QC215_210714	Interlab_D	811260	2.5	0.08	***4.3***	0.22	0.32	1.8	0.10	<0.01	0.10	0.12	0.40	0.04	<0.01	<0.01	<0.01	<0.01
			0937_SW256_210714	Normal	EM2113872-AB	1.79	0.06	***3.41***	0.23	0.19	1.62	0.07	<0.02	<0.1	0.03	0.29	0.04	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW256_211112	Normal	EM2123080	1.04	0.02	**1.37**	0.03	0.03	0.33	0.02	<0.02	<0.1	0.05	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		17 Feb 2022	0937_SW256_220217	Normal	EM2202703	4.01	0.17	***7.34***	0.44	0.43	3.33	0.13	<0.02	0.1	0.31	1.05	0.08	<0.02	<0.02	<0.02	<0.02
		26 May 2022	0937_SW256_220526	Normal	EM2210316	2.11	0.06	***5.01***	0.32	0.32	2.90	0.10	<0.02	<0.1	0.12	0.46	0.04	<0.02	<0.02	<0.02	<0.02
		24 Aug 2022	0937_SW256_220824	Normal	EM2216476	1.00	0.04	**1.96**	0.11	0.10	0.96	0.03	<0.02	<0.1	0.05	0.16	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Nov 2022	0937_SW256_221128	Normal	EM2223972	2.13	0.09	***5.20***	0.25	0.31	3.07	0.09	<0.02	<0.1	0.08	0.36	0.04	<0.02	<0.02	<0.02	<0.02
		23 Nov 2023	0937_SW256_231123	Normal	EM2320952	6.12	0.26	***11.6***	0.71	0.94	5.46	0.30	<0.04	<0.2	0.26	0.93	0.15	<0.04	<0.04	<0.04	<0.04
SW257	On-Site	13 Oct 2016	SW257	Normal	EM1612198	7.68	0.2	***14.44***	0.54	0.58	6.76	0.27	<0.02	<0.1	0.07	0.41	0.1	<0.02	<0.02	<0.02	<0.02
		22 Nov 2019	0937_SW257_191122	Normal	EM1920039	4.94	0.11	***6.36***	0.11	0.12	1.42	0.10	<0.02	0.1	0.72	0.77	0.15	<0.02	<0.02	<0.02	<0.02
		17 Jun 2020	0937_SW257_20200617	Normal	EM2010514	3.62	0.08	***4.87***	0.11	0.15	1.25	0.09	<0.02	0.1	0.22	0.50	0.09	<0.02	<0.02	<0.02	<0.02
		23 Jun 2020	0937_SW257_200623	Normal	EM2010697	3.03	0.04	***3.72***	0.07	0.07	0.69	0.06	0.03	<0.1	0.20	0.30	0.05	<0.02	<0.02	<0.02	<0.02
		11 Nov 2020	0937_SW257_201111	Normal	EM2020050	7.38	0.11	***9.44***	0.23	0.24	2.06	0.14	0.17	<0.1	0.32	0.59	0.08	<0.02	<0.02	<0.02	<0.02
		28 Jan 2021	0937_QC209_210128	Interlab_D	770470	2.5	0.05	***3.43***	0.09	0.10	0.93	0.05	<0.01	0.08	0.45	0.37	0.08	<0.01	<0.01	<0.01	<0.01
		29 Jan 2021	0937_QC109_210129	Field_D	EM2101229	2.38	0.06	***3.43***	0.12	0.09	1.05	0.07	<0.02	<0.1	0.36	0.44	0.09	<0.02	<0.02	<0.02	<0.02
			0937_SW257_210129	Normal	EM2101229	2.48	0.05	***3.50***	0.10	0.10	1.02	0.07	<0.02	0.1	0.37	0.45	0.11	<0.02	<0.02	<0.02	<0.02
		28 Apr 2021	0937_ SW257_202105	Normal	EM2107858	3.51	0.12	***6.27***	0.29	0.24	2.76	0.15	<0.02	0.1	0.37	0.68	0.14	<0.02	<0.02	<0.02	<0.02
		15 Jul 2021	0937_SW257_210715	Normal	EM2113872-AB	2.02	0.08	***3.72***	0.22	0.21	1.70	0.08	<0.02	<0.1	<0.02	0.37	0.05	<0.02	<0.02	<0.02	<0.02
		12 Nov 2021	0937_SW257_211112	Normal	EM2123080	1.15	0.02	**1.52**	0.05	0.04	0.37	<0.02	<0.02	<0.1	0.06	0.09	<0.02	<0.02	<0.02	<0.02	<0.02
		18 Feb 2022	0937_QC111_220218	Field_D	EM2202703	9.53	0.3	***16.1***	0.83	0.78	6.58	0.41	<0.02	0.2	0.43	1.8	0.23	<0.02	<0.02	<0.02	<0.02
			0937_QC211_220218	Interlab_D	864735	12	0.41	***17.3***	0.72	0.97	5.3	0.42	<0.01	0.25	0.42	1.1	0.21	<0.01	<0.01	<0.01	<0.01
			0937_SW257_220218	Normal	EM2202703	7.84	0.3	***12.8***	0.77	0.83	4.91	0.35	<0.02	<0.1	0.37	1.41	0.19	<0.02	<0.02	<0.02	<0.02
		25 May 2022	0937_QC112_220525	Field_D	EM2210316	6.18	0.23	***11.9***	0.98	0.91	5.68	0.32	<0.02	0.1	0.40	1.25	0.20	<0.02	<0.02	<0.02	<0.02
			0937_QC212_220525	Interlab_D	893740	6.8	0.24	***12.4***	0.69	0.95	5.6	0.46	<0.01	0.14	0.32	0.88	0.16	<0.01	<0.01	<0.01	<0.01
		26 May 2022	0937_SW257_220525	Normal	EM2210316	8.35	0.24	***14.9***	0.94	0.90	6.52	0.36	0.03	0.1	0.41	1.22	0.19	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW257_220823	Normal	EM2216476	0.97	0.02	**1.48**	0.08	0.06	0.51	0.03	<0.02	<0.1	0.05	0.11	<0.02	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_SW257_221123	Normal	EM2223510	1.47	0.04	**2.51**	0.13	0.12	1.04	0.06	<0.02	<0.1	0.06	0.17	0.03	<0.02	<0.02	<0.02	<0.02
		20 Nov 2023	0937_SW257_231120	Normal	EM2320952	5.40	0.26	***11.0***	0.80	0.97	5.56	0.34	<0.02	<0.1	0.27	0.98	0.16	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW258	On-Site	13 Oct 2016	SW258	Normal	EM1612198	7.57	0.14	***12.38***	0.35	0.42	4.81	0.21	<0.02	<0.1	0.06	0.34	0.07	<0.02	<0.02	<0.02	<0.02
		22 Nov 2019	0937_SW258_191122	Normal	EM1920039	5.97	0.08	***7.00***	0.06	0.08	1.03	0.22	0.02	<0.1	0.42	0.58	0.12	<0.02	<0.02	<0.02	<0.02
		20 Mar 2020	0937_SW258_20200318	Normal	EM2004711	4.96	0.07	***5.93***	0.08	0.18	0.97	0.08	0.04	<0.1	0.35	0.50	0.10	<0.02	<0.02	<0.02	<0.02
		15 Jun 2020	0937_SW258_20200615	Normal	EM2010514	3.28	0.05	***4.13***	0.08	0.10	0.85	0.06	0.13	0.2	0.14	0.31	0.06	<0.02	<0.02	<0.02	<0.02
		09 Nov 2020	0937_SW258_201109	Normal	EM2020050	2.62	0.04	***3.52***	0.09	0.08	0.90	0.06	<0.02	<0.1	0.13	0.26	0.04	<0.02	<0.02	<0.02	<0.02
		29 Jan 2021	0937_SW258_210129	Normal	EM2101229	2.59	0.03	***3.15***	0.07	0.04	0.56	0.05	<0.02	0.1	0.13	0.23	0.05	<0.02	<0.02	<0.02	<0.02
		20 Apr 2021	0937_ SW258 _20210420	Normal	EM2107085	2.88	0.06	***3.95***	0.12	0.12	1.07	0.08	<0.02	<0.1	0.22	0.38	0.08	<0.02	<0.02	<0.02	<0.02
		05 Aug 2021	0937_SW258_210805	Normal	EM2115476	1.67	0.06	***3.16***	0.21	0.16	1.49	0.06	<0.02	<0.1	0.08	0.24	0.03	<0.02	<0.02	<0.02	<0.02
		16 Nov 2021	0937_QC115_211116	Field_D	EM2123080	2.44	0.07	***4.02***	0.16	0.21	1.58	0.09	<0.02	<0.1	0.13	0.30	0.05	<0.02	<0.02	<0.02	<0.02
			0937_QC215_211116	Interlab_D	842318	3.7	0.09	***5.3***	0.22	0.25	1.6	0.09	<0.01	0.10	0.11	0.35	0.05	<0.01	<0.01	<0.01	<0.01
			0937_SW258_211116	Normal	EM2123080	2.34	0.08	***3.77***	0.15	0.21	1.43	0.08	<0.02	<0.1	0.13	0.28	0.04	<0.02	<0.02	<0.02	<0.02
		21 Feb 2022	0937_SW258_220221	Normal	EM2203247	6.05	0.27	***11.2***	0.72	0.85	5.18	0.38	<0.02	0.2	0.53	1.31	0.22	<0.02	<0.02	<0.02	<0.02
		30 May 2022	0937_SW258_220530	Normal	EM2210316	5.95	0.24	***12.6***	0.98	0.90	6.62	0.31	<0.02	0.1	0.52	1.35	0.22	<0.02	<0.02	<0.02	<0.02
		02 Sep 2022	0937_SW258_220902	Normal	EM2217000	4.41	0.16	***8.90***	0.61	0.61	4.49	0.23	<0.02	<0.1	0.32	0.97	0.13	<0.02	<0.02	<0.02	<0.02
		23 Nov 2022	0937_SW258_221123	Normal	EM2223510	1.86	0.04	***2.86***	0.11	0.11	1.00	0.05	0.03	<0.1	0.06	0.18	0.03	<0.02	<0.02	<0.02	<0.02
		16 Nov 2023	0937_QC114_231116	Field_D	EM2320952	4.65	0.16	***8.24***	0.58	0.55	3.59	0.21	<0.02	<0.1	0.19	0.69	0.12	<0.02	<0.02	<0.02	<0.02
			0937_QC214_231116	Interlab_D	1048259	4.8	0.15	***8.1***	0.50	0.64	3.3	0.22	<0.01	0.10	0.20	0.64	0.09	<0.01	<0.01	<0.01	<0.01
			0937_SW258_231116	Normal	EM2320952	4.25	0.16	***8.07***	0.51	0.63	3.82	0.23	<0.02	<0.1	0.22	0.71	0.12	<0.02	<0.02	<0.02	<0.02
SW277	Off-Site	26 Oct 2016	OSW010	Normal	EM1612993	0.27	0.004	**0.471**	0.022	0.018	0.201	0.007	<0.002	<0.01	0.006	0.051	0.004	<0.002	<0.002	<0.002	<0.002
			QCA405	Field_D	EM1612868	0.182	0.005	**0.385**	0.026	0.02	0.203	0.007	<0.002	<0.01	0.006	0.054	0.004	<0.002	<0.002	<0.002	<0.002
			QCB406	Interlab_D	521935	0.33	<0.01	**0.44**	0.02		0.11		<0.01	<0.05	0.02	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
		04 Dec 2019	0937_SW010_191204	Normal	EM1920784	0.20	0.02	**0.50**	0.02	0.02	0.30	<0.02	<0.02	<0.1	0.03	0.22	<0.02	<0.02	<0.02	<0.02	<0.02
		19 Mar 2020	0937_SW277_20200319	Normal	EM2004706	0.23	<0.01	**0.47**	0.04	0.07	0.24	<0.02	<0.02	<0.1	0.08	0.38	0.03	<0.02	<0.02	<0.02	<0.02
		18 Jun 2020	0937_SW277_200618	Normal	EM2010381	0.20	0.01	**0.43**	0.04	0.04	0.23	<0.02	<0.02	<0.1	0.04	0.27	0.02	<0.02	<0.02	<0.02	<0.02
		12 Nov 2020	0937_SW277_201112	Normal	EM2020047	1.18	<0.01	**1.32**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.10	<0.02	<0.02	<0.02	<0.02	<0.02
		02 Feb 2021	0937_SW277_210202	Normal	EM2101562	0.21	<0.01	**0.36**	<0.02	0.02	0.15	<0.02	<0.02	<0.1	0.02	0.14	<0.02	<0.02	<0.02	<0.02	<0.02
		29 Apr 2021	0937_SW277_20210429	Normal	EM2107855	0.28	<0.01	**0.51**	0.05	0.02	0.23	<0.02	<0.02	<0.1	0.04	0.23	0.02	<0.02	<0.02	<0.02	<0.02
		04 Aug 2021	0937_SW277_210804	Normal	EM2115483	1.26	<0.01	**1.32**	<0.02	<0.02	0.06	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		10 Nov 2021	0937_SW277_211110	Normal	EM2123004	0.13	<0.01	**0.15**	<0.02	<0.02	0.02	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
		22 Feb 2022	0937_SW277_220222	Normal	EM2203194	0.50	<0.01	**0.61**	<0.02	<0.02	0.11	<0.02	<0.02	<0.1	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		27 May 2022	0937_SW277_220527	Normal	EM2210252	1.48	<0.01	**1.62**	<0.02	<0.02	0.14	<0.02	<0.02	<0.1	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02
		31 Aug 2022	0937_SW277_220831	Normal	EM2216996	1.45	0.01	**1.58**	<0.02	<0.02	0.13	<0.02	<0.02	<0.1	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02
		21 Nov 2023	0937_SW277_231121	Normal	EM2320910	0.27	<0.01	**0.31**	<0.02	<0.02	0.04	<0.02	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW351	On-Site	11 May 2021	0937_SW351_210511	Normal	EM2109423	0.37	ND	**0.52**	0.02	ND	0.15	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND
		23 Aug 2021	0937_QC161_210823	Field_D	EM2118293	0.87	0.02	**1.08**	0.03	0.02	0.21	ND	ND	ND	0.02	0.06	ND	ND	ND	ND	ND
			0937_QC261_210823	Interlab_D	27823	0.83	0.02	**1.1**	0.04	0.03	0.23	0.01	ND	0.03	0.04	0.07	0.02	ND	ND	ND	ND
			0937_SW351_210823_1215	Normal	EM2118293	0.82	0.02	**1.10**	0.02	ND	0.28	ND	ND	ND	ND	0.07	ND	ND	ND	ND	ND
			0937_SW351_210823_1315	Normal	EM2118293	0.92	0.02	**1.20**	0.06	0.03	0.28	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND
			0937_SW351_210823_1415	Normal	EM2118293	0.81	0.02	**1.11**	0.06	0.02	0.30	ND	ND	ND	ND	0.10	0.02	ND	ND	ND	ND
			0937_SW351_210823_1615	Normal	EM2118293	0.82	0.02	**1.10**	0.05	0.03	0.28	ND	ND	ND	ND	0.09	ND	ND	ND	ND	ND
		24 Aug 2021	0937_SW351_210824_0015	Normal	EM2118293	0.66	0.01	**0.99**	0.05	0.04	0.33	ND	ND	ND	0.03	0.09	ND	ND	ND	ND	ND
			0937_SW351_210824_1605	Normal	EM2118293	0.66	0.01	**0.92**	0.04	0.03	0.26	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND
		25 Aug 2021	0937_SW351_210825_0015	Normal	EM2118293	0.55	ND	**0.73**	0.02	ND	0.18	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND
		26 Aug 2021	0937_SW351_210826_0015	Normal	EM2118293	0.40	ND	**0.54**	ND	ND	0.14	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND
		03 Sep 2021	0937_QC166_210903	Field_D	EM2118293	1.02	0.02	**1.60**	0.08	0.07	0.58	0.02	ND	ND	0.06	0.17	0.02	ND	ND	ND	ND
			0937_QC263_210903	Interlab_D	27823	0.94	0.03	**1.5**	0.10	0.07	0.52	0.03	ND	0.07	0.08	0.17	0.02	ND	ND	ND	ND
			0937_SW351_210903_2015	Normal	EM2118293	0.98	0.02	**1.46**	0.08	0.07	0.48	0.02	ND	ND	0.07	0.15	ND	ND	ND	ND	ND
			0937_SW351_210903_2115	Normal	EM2118293	1.05	0.02	**1.43**	0.06	0.05	0.38	ND	ND	ND	0.05	0.11	ND	ND	ND	ND	ND
			0937_SW351_210903_2215	Normal	EM2118293	1.06	0.02	**1.52**	0.08	0.06	0.46	0.02	ND	ND	0.06	0.13	0.02	ND	ND	ND	ND
		04 Sep 2021	0937_SW351_210904_0015	Normal	EM2118293	0.95	0.02	**1.40**	0.08	0.06	0.45	0.02	ND	ND	0.06	0.13	0.02	ND	ND	ND	ND
			0937_SW351_210904_0815	Normal	EM2118293	0.87	0.02	**1.23**	0.07	0.05	0.36	ND	ND	ND	0.04	0.10	ND	ND	ND	ND	ND
		05 Sep 2021	0937_SW351_210905_0015	Normal	EM2118293	0.93	0.02	**1.39**	0.08	0.06	0.46	0.02	ND	ND	0.06	0.13	ND	ND	ND	ND	ND
		06 Sep 2021	0937_SW351_210906_0015	Normal	EM2118293	1.14	0.03	**1.64**	0.09	0.06	0.50	0.03	ND	ND	0.07	0.15	ND	ND	ND	ND	ND
		07 Sep 2021	0937_SW351_210907_0015	Normal	EM2118293	1.14	0.04	**1.78**	0.10	0.08	0.64	0.04	ND	ND	0.07	0.16	0.02	ND	ND	ND	ND
		30 Sep 2021	0937_QC168_21930	Field_D	EM2120760	0.85	0.03	**1.28**	0.09	0.05	0.43	0.03	ND	ND	0.05	0.12	0.02	ND	ND	ND	ND
			0937_QC267_21930	Interlab_D	28330	3.6	0.12	**7.0**	0.40	0.43	3.4	0.16	ND	0.09	0.21	0.67	0.1	ND	ND	ND	ND
			0937_SW351_210930_0913	Normal	EM2120760	2.74	0.10	**4.97**	0.34	0.32	2.23	0.13	ND	ND	0.16	0.44	0.07	ND	ND	ND	ND
			0937_SW351_210930_0957	Normal	EM2120760	3.17	0.11	**5.90**	0.33	0.38	2.73	0.14	ND	ND	0.16	0.54	0.08	ND	ND	ND	ND
			0937_SW351_210930_1046	Normal	EM2120760	2.89	0.11	**5.54**	0.32	0.33	2.65	0.14	ND	ND	0.18	0.54	0.08	ND	ND	ND	ND
			0937_SW351_210930_1542	Normal	EM2120760	3.37	0.11	**6.04**	0.35	0.38	2.67	0.15	ND	ND	0.19	0.57	0.07	ND	ND	ND	ND
			0937_SW351_210930_2341	Normal	EM2120760	1.65	0.03	**2.29**	0.07	0.08	0.64	0.04	ND	ND	0.05	0.14	0.02	ND	ND	ND	ND
		01 Oct 2021	0937_SW351_211001_2342	Normal	EM2120760	1.04	0.02	**1.54**	0.05	0.06	0.50	0.03	ND	ND	0.03	0.10	ND	ND	ND	ND	ND
		03 Oct 2021	0937_SW351_211003_2343	Normal	EM2120760	2.95	0.07	**4.54**	0.21	0.21	1.59	0.08	ND	ND	0.09	0.31	0.04	ND	ND	ND	ND
		12 Nov 2021	0937_SW351_211112_1130	Normal	EM2123590	0.33	ND	**0.51**	0.03	0.02	0.18	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND
			0937_SW351_211112_1330	Normal	EM2123590	0.39	ND	**0.57**	0.04	0.03	0.18	ND	ND	ND	0.02	0.05	ND	ND	ND	ND	ND
			0937_SW351_211112_1630	Normal	EM2123590	0.34	ND	**0.51**	0.02	ND	0.17	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND
			0937_SW351_211112_2230	Normal	EM2123590	0.48	0.01	**0.72**	0.04	0.03	0.24	ND	ND	ND	0.03	0.06	ND	ND	ND	ND	ND
			0937_SW351_211113_0430	Normal	EM2123590	0.52	0.01	**0.81**	0.05	0.03	0.29	ND	ND	ND	0.03	0.08	ND	ND	ND	ND	ND
		13 Nov 2021	0937_SW351_211113_1030	Normal	EM2123590	0.36	ND	**0.53**	0.03	ND	0.17	ND	ND	ND	ND	0.04	ND	ND	ND	ND	ND
			0937_SW351_211113_2230	Normal	EM2123590	0.61	0.02	**0.95**	0.06	0.04	0.34	ND	ND	ND	0.05	0.11	ND	ND	ND	ND	ND
		14 Nov 2021	0937_SW351_211114_1030	Normal	EM2123590	0.64	0.02	**0.98**	0.06	0.04	0.34	ND	ND	ND	0.05	0.10	ND	ND	ND	ND	ND
		15 Nov 2021	0937_SW351_211115_1045	Normal	EM2123590	0.67	0.02	**1.11**	0.08	0.06	0.44	0.02	ND	ND	0.07	0.12	ND	ND	ND	ND	ND
		16 Nov 2021	0937_SW351_211116_1045	Normal	EM2123590	0.63	0.02	**0.97**	0.07	0.04	0.34	ND	ND	ND	0.06	0.10	ND	ND	ND	ND	ND
			0937_SW351_211116_1400	Normal	EM2123590	0.62	0.02	**0.99**	0.09	0.04	0.37	0.02	ND	ND	0.06	0.10	ND	ND	ND	ND	ND

Table B2: Surface Water Analytical Results

						Perfluorocarbons													
						Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	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	µg/L	µg/L	µg/L	µg/L	µg/L
LOR						0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002
PFAS NEMP 2.0 Table 1 Health Drinking Water							**0.56**	**0.07**													
PFAS NEMP 2.0 Table 1 Health Recreational Water							*10*	*2*													
PFAS NEMP 2.0 Table 5 Freshwater 99%						0.00023	19														
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW351	On-Site	01 Apr 2022	0937_SW351_220401_1345	Normal	EM2207373	0.31	ND	**0.44**	ND	ND	0.13	ND	ND	ND	0.35	0.28	0.06	ND	ND	ND	ND
			0937_SW351_220401_1445	Normal	EM2207373	0.31	ND	**0.47**	0.02	ND	0.16	ND	ND	ND	0.49	0.37	0.08	ND	ND	ND	ND
			0937_SW351_220401_1645	Normal	EM2207373	0.34	ND	**0.52**	0.02	ND	0.18	ND	ND	ND	0.46	0.39	0.08	ND	ND	ND	ND
		04 Apr 2022	0937_QC1108_20220404	Field_D	EM2207373	0.72	0.01	**1.00**	0.07	0.04	0.28	0.02	ND	ND	0.07	0.08	ND	ND	ND	ND	ND
			0937_SW351_220404_1715	Normal	EM2207373	0.78	0.02	**1.15**	0.09	0.06	0.37	0.02	ND	ND	0.10	0.18	ND	ND	ND	ND	ND
			0937_SW351_220404_1815	Normal	EM2207373	0.70	0.02	**1.09**	0.10	0.06	0.39	ND	ND	ND	0.07	0.14	ND	ND	ND	ND	ND
			0937_SW351_220404_2015	Normal	EM2207373	0.80	0.02	**1.11**	0.08	0.05	0.31	0.02	ND	ND	0.07	0.10	ND	ND	ND	ND	ND
			0937_SW351_220404_2330	Normal	EM2207373	0.75	0.01	**1.04**	0.07	0.04	0.29	ND	ND	ND	0.07	0.09	ND	ND	ND	ND	ND
		05 Apr 2022	0937_QC1109_20220405	Field_D	EM2207373	0.66	0.01	**0.95**	0.07	0.04	0.29	ND	ND	ND	0.09	0.11	ND	ND	ND	ND	ND
			0937_SW351_220405_0530	Normal	EM2207373	0.65	0.01	**0.93**	0.06	0.04	0.28	ND	ND	ND	0.08	0.09	ND	ND	ND	ND	ND
			0937_SW351_220405_1130	Normal	EM2207373	0.63	0.01	**0.91**	0.06	0.04	0.28	ND	ND	ND	0.09	0.10	ND	ND	ND	ND	ND
			0937_SW351_220405_1730	Normal	EM2207373	0.66	0.01	**0.98**	0.07	0.04	0.32	ND	ND	ND	0.11	0.12	0.02	ND	ND	ND	ND
		06 Apr 2022	0937_QC1110_20220406	Field_D	EM2207373	0.66	0.02	**1.00**	0.07	0.05	0.34	ND	ND	ND	0.15	0.13	0.02	ND	ND	ND	ND
			0937_QC2108_20220404	Interlab_D	31187	0.75	0.01	**1.1**	0.09	0.05	0.35	0.02	ND	0.04	0.08	0.12	0.01	ND	ND	ND	ND
			0937_QC2109_20220405	Interlab_D	31187	0.68	0.02	**1.0**	0.07	0.05	0.36	0.01	ND	0.04	0.11	0.15	0.02	ND	ND	ND	ND
			0937_SW351_220406_0530	Normal	EM2207373	0.63	0.01	**0.97**	0.07	0.05	0.34	ND	ND	ND	0.14	0.13	0.02	ND	ND	ND	ND
			0937_SW351_220406_1730	Normal	EM2207373	0.62	0.02	**0.96**	0.07	0.05	0.34	0.02	ND	ND	0.17	0.15	0.03	ND	ND	ND	ND
		07 Apr 2022	0937_QC1111_20220407	Field_D	EM2207373	0.60	0.02	**0.98**	0.08	0.06	0.38	0.02	ND	ND	0.25	0.18	0.03	ND	ND	ND	ND
			0937_QC2110_20220406	Interlab_D	31187	0.63	0.02	**1.0**	0.09	0.05	0.40	0.02	ND	0.05	0.17	0.19	0.02	ND	ND	ND	ND
			0937_QC2111_20220407	Interlab_D	31187	0.66	0.02	**1.1**	0.1	0.06	0.46	0.02	ND	0.07	0.28	0.26	0.04	ND	ND	ND	ND
			0937_SW351_220407_1730	Normal	EM2207373	0.66	0.02	**1.03**	0.08	0.05	0.37	0.02	ND	ND	0.24	0.18	0.03	ND	ND	ND	ND
		08 Apr 2022	0937_SW351_220408_1730	Normal	EM2207373	0.59	0.02	**0.96**	0.08	0.06	0.37	0.02	ND	ND	0.31	0.20	0.04	ND	ND	ND	ND
		22 Aug 2022	0937_SW351_220822_1600	Normal	EM2216498	0.76	0.03	**1.26**	0.10	0.06	0.50	0.03	ND	ND	0.18	0.22	0.04	ND	ND	ND	ND
		23 Aug 2022	0937_SW351_220823_0215	Normal	EM2216498	0.56	0.02	**0.91**	0.09	0.03	0.35	0.02	ND	ND	0.15	0.17	0.03	ND	ND	ND	ND
			0937_SW351_220823_0330	Normal	EM2216498	0.64	0.02	**1.03**	0.08	0.06	0.39	ND	ND	ND	0.14	0.17	0.03	ND	ND	ND	ND
			0937_SW351_220823_0400	Normal	EM2216498	0.63	0.02	**1.02**	0.07	0.05	0.39	ND	ND	ND	0.14	0.16	0.04	ND	ND	ND	ND
			0937_SW351_220823_0500	Normal	EM2216498	0.69	0.02	**1.07**	0.05	0.04	0.38	ND	ND	ND	0.11	0.14	0.03	ND	ND	ND	ND
			0937_SW351_220823_0715	Normal	EM2216498	0.63	0.02	**1.03**	0.08	0.06	0.40	0.02	ND	ND	0.13	0.18	0.03	ND	ND	ND	ND
			0937_SW351_220823_1015	Normal	EM2216498	0.66	0.02	**1.04**	0.07	0.06	0.38	ND	ND	ND	0.11	0.14	0.03	ND	ND	ND	ND
			0937_SW351_220823_1615	Normal	EM2216498	0.57	0.02	**0.91**	0.07	0.05	0.34	ND	ND	ND	0.10	0.14	ND	ND	ND	ND	ND
			0937_SW351_220823_2215	Normal	EM2216498	0.51	0.02	**0.84**	0.08	0.05	0.33	ND	ND	ND	0.10	0.15	0.02	ND	ND	ND	ND
		24 Aug 2022	0937_SW351_220824_0415	Normal	EM2216498	0.50	0.02	**0.84**	0.07	0.06	0.34	ND	ND	ND	0.11	0.15	0.02	ND	ND	ND	ND
			0937_SW351_220824_1615	Normal	EM2216498	0.59	0.02	**0.94**	0.08	0.06	0.35	ND	ND	ND	0.14	0.17	0.03	ND	ND	ND	ND
		25 Aug 2022	0937_SW351_220825_0415	Normal	EM2216498	0.49	0.02	**0.85**	0.08	0.05	0.36	ND	ND	ND	0.14	0.18	0.03	ND	ND	ND	ND
			0937_SW351_220825_1650	Normal	EM2216498	0.44	0.02	**0.80**	0.09	0.06	0.36	ND	ND	ND	0.11	0.18	0.04	ND	ND	ND	ND
		26 Aug 2022	0937_SW351_220826_0415	Normal	EM2216498	0.44	0.02	**0.85**	0.09	0.06	0.41	ND	ND	ND	0.12	0.16	0.04	ND	ND	ND	ND
		27 Aug 2022	0937_SW351_220827_0300	Normal	EM2217017	0.48	0.02	**0.92**	0.08	0.06	0.44	ND	ND	ND	0.13	0.18	0.05	ND	ND	ND	ND
		15 Nov 2023	0937_SW351_231115	Normal	EM2320952	0.70	0.02	**0.93**	0.04	0.02	0.23	<0.02	<0.02	0.1	0.53	0.55	0.12	<0.02	<0.02	<0.02	<0.02
SW353		13 Jul 2021	0937_SW353_210713	Normal	EM2113872-AB	1.51	0.11	***3.94***	0.49	0.35	2.43	0.10	<0.02	0.1	0.20	0.63	0.07	<0.02	<0.02	<0.02	<0.02
		15 Nov 2021	0937_SW353_211115	Normal	EM2123080	9.16	0.21	***13.1***	0.58	0.49	3.91	0.29	0.03	0.5	0.54	0.78	0.08	<0.02	<0.02	<0.02	<0.02
		23 Aug 2022	0937_SW353_220823	Normal	EM2216476	7.37	0.11	***10.1***	0.44	0.25	2.70	0.19	0.04	0.3	0.27	0.36	0.04	<0.02	<0.02	<0.02	<0.02
		24 Nov 2022	0937_SW353_221124	Normal	EM2223510	13.0	0.18	***16.8***	0.49	0.33	3.79	0.32	0.05	0.2	0.16	0.44	0.07	<0.02	<0.02	<0.02	<0.02

Notes

Denotes first-time detection above LOR in latest monitoring round

Denotes new exceedance of human health drinking water screening criteria in latest monitoring round

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW001	Off-Site	01 Jun 2016	OSW001	Normal	EM1606490	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32	
		26 Oct 2016	OSW001	Normal	EM1612997	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	0.014	<0.005	<0.005	2.33	
		03 Dec 2019	0937_SW001_191203	Normal	EM1920790	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.52	
		20 Mar 2020	0937_SW001_20200320	Normal	EM2004707	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.55	
		23 Jun 2020	0937_SW001_20200623	Normal	EM2010693	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.51	
		13 Nov 2020	0937_SW001_201113	Normal	EM2020041	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.69	
		04 Feb 2021	0937_SW001_210204	Normal	EM2101558	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.56	
		29 Apr 2021	0937_SW001_20210429	Normal	EM2107856	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12	
		06 Aug 2021	0937_SW001_210806	Normal	EM2115478	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16	
		24 Feb 2022	0937_SW001_220224	Normal	EM2203197	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68	
		29 May 2022	0937_SW001_220529	Normal	EM2210255	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81	
		01 Sep 2022	0937_SW001_220901	Normal	EM2216994-AD	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55	
		21 Nov 2023	0937_SW001_231121	Normal	EM2320912	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29	
SW002	Off-Site	01 Jun 2016	OSW002	Normal	EM1606490	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.31	
		26 Oct 2016	OSW002	Normal	EM1612984	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	1.19	
			QCA409	Field_D	EM1612868	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	1.56	
			QCB410	Interlab_D	521935	<0.01	<0.01	<0.05		<0.05		<0.05				<0.01	<0.05	<0.01			
		28 Nov 2019	0937_SW02_191128	Normal	EM1920529-AC	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	2.52	
		19 Mar 2020	0937_SW002_20200319	Normal	EM2004707	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.24	<0.05	<0.05	2.91	
		23 Jun 2020	0937_SW002_20200623	Normal	EM2010693	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.52	
		12 Nov 2020	0937_SW002_201112	Normal	EM2020041	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.39	<0.05	<0.05	3.59	
		02 Feb 2021	0937_SW002_210202	Normal	EM2101558	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.15	<0.05	<0.05	2.40	
		29 Apr 2021	0937_SW002_20210429	Normal	EM2107856	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.60	
		05 Aug 2021	0937_SW002_210805	Normal	EM2115478	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.83	
		11 Nov 2021	0937_QC104_211111	Field_D	EM2123001	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.38	
			0937_QC204_211111	Interlab_D	847843	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.74	0.72
			0937_SW002_211111	Normal	EM2123001	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.47	
		23 Feb 2022	0937_SW002_2220223	Normal	EM2203197	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	10.5	
		28 May 2022	0937_SW002_220528	Normal	EM2210255	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.46	
		01 Sep 2022	0937_SW002_220901	Normal	EM2216994-AD	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.98	
		21 Nov 2023	0937_SW002_231121	Normal	EM2320912	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.52	
SW004	Off-Site	26 Oct 2016	OSW004	Normal	EM1612984	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.577	
		28 Nov 2019	0937_SW04_191128	Normal	EM1920529-AC	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.38	
		19 Mar 2020	0937_SW004_20200319	Normal	EM2004707	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	2.62	
		23 Jun 2020	0937_SW004_200623	Normal	EM2010693	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.82	
		12 Nov 2020	0937_SW004_201112	Normal	EM2020041	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	3.09	
		02 Feb 2021	0937_SW004_210202	Normal	EM2101558	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.46	
		29 Apr 2021	0937_SW004_20210429	Normal	EM2107856	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.61	
		05 Aug 2021	0937_SW004_210805	Normal	EM2115478	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.66	
		11 Nov 2021	0937_QC103_211111	Field_D	EM2123001	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.45	
			0937_QC203_211111	Interlab_D	847843	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.84	0.8
			0937_SW004_211111	Normal	EM2123001	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.40	
		23 Feb 2022	0937_SW004_220223	Normal	EM2203197	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.26	
		28 May 2022	0937_SW004_220528	Normal	EM2210255	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.52	
		01 Sep 2022	0937_SW004_220901	Normal	EM2216994-AD	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.75	
		21 Nov 2023	0937_SW004_231121	Normal	EM2320912	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	1.95	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW011	**Off-Site**	**26 Oct 2016**	**OSW011**	**Normal**	**EM1612993**	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.581	
		04 Dec 2019	**0937_QC110_191204**	**Field_D**	**EM1920784**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.38	
			0937_QC210_191204	**Interlab_D**	**EM1920784**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39	
			0937_SW011_191204	**Normal**	**EM1920784**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.37	
		25 Mar 2020	**0937_SW011_20200325**	**Normal**	**EM2005034**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.57	
		22 Jun 2020	**0937_SW011_20200621**	**Normal**	**EM2010690**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.48	
		13 Nov 2020	**0937_SW011_201113**	**Normal**	**EM2020047**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.30	
		02 Feb 2021	**0937_SW011_210202**	**Normal**	**EM2101562**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59	
		30 Apr 2021	**0937_SW011_20210430**	**Normal**	**EM2107855**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	0.68	
		06 Aug 2021	**0937_SW011_210806**	**Normal**	**EM2115483**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
		10 Nov 2021	**0937_SW011_211110**	**Normal**	**EM2123004**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		23 Feb 2022	**0937_SW011_220223**	**Normal**	**EM2203194**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
		27 May 2022	**0937_SW011_220527**	**Normal**	**EM2210252**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
		22 Nov 2023	**0937_SW011_231122**	**Normal**	**EM2320910**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.10	
SW012	**Off-Site**	**26 Oct 2016**	**OSW012**	**Normal**	**EM1612988**	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.011	
		04 Dec 2019	**0937_SW012_191204**	**Normal**	**EM1920780**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		25 Mar 2020	**0937_SW012_20200325**	**Normal**	**EM2005032**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Jun 2020	**0937_SW012_20200623**	**Normal**	**EM2010690**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		13 Nov 2020	**0937_SW012_201113**	**Normal**	**EM2020052**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		04 Feb 2021	**0937_SW012_210202**	**Normal**	**EM2101560**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Apr 2021	**0937_SW012_20210430**	**Normal**	**EM2107805**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		06 Aug 2021	**0937_SW012_210806**	**Normal**	**EM2115569**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		10 Nov 2021	**0937_SW012_211110**	**Normal**	**EM2123004**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		23 Feb 2022	**0937_SW012_220223**	**Normal**	**EM2203192**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		31 May 2022	**0937_SW012_220527**	**Normal**	**EM2210253**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Nov 2023	**0937_SW012_231122**	**Normal**	**EM2320919**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
SW014	**Off-Site**	**26 Oct 2016**	**OSW014**	**Normal**	**EM1612993**	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.179	
		04 Dec 2019	**0937_SW014_191204**	**Normal**	**EM1920787**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
		25 Mar 2020	**0937_QC106_20200325**	**Field_D**	**EM2005034**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
			0937_QC206_20200325	**Interlab_D**	**710361**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.13	0.09
			0937_SW014_20200325	**Normal**	**EM2005034**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		22 Jun 2020	**0937_SW014_20200623**	**Normal**	**EM2010690**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		13 Nov 2020	**0937_SW014_201113**	**Normal**	**EM2020047**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17	
		02 Feb 2021	**0937_SW014_210202**	**Normal**	**EM2101562**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		30 Apr 2021	**0937_SW014_20210430**	**Normal**	**EM2107855**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		06 Aug 2021	**0937_SW014_210806**	**Normal**	**EM2115483**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
		10 Nov 2021	**0937_SW014_211110**	**Normal**	**EM2123004**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07	
		23 Feb 2022	**0937_SW014_220223**	**Normal**	**EM2203194**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18	
		27 May 2022	**0937_SW014_220527**	**Normal**	**EM2210252**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.30	
		22 Nov 2023	**0937_SW014_231122**	**Normal**	**EM2320910**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
SW015	**Off-Site**	**26 Oct 2016**	**OSW015**	**Normal**	**EM1612993**	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.422	
		04 Dec 2019	**0937_SW015_191204**	**Normal**	**EM1920784**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.19	
		25 Mar 2020	**0937_SW015_20200325**	**Normal**	**EM2005034**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.57	
		22 Jun 2020	**0937_SW015_200623**	**Normal**	**EM2010690**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		13 Nov 2020	**0937_SW015_201113**	**Normal**	**EM2020047**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24	
		02 Feb 2021	**0937_SW015_210202**	**Normal**	**EM2101562**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49	
		30 Apr 2021	**0937_SW015_20210430**	**Normal**	**EM2107855**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62	
		23 Feb 2022	**0937_SW015_220223**	**Normal**	**EM2203194**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.19	
		27 May 2022	**0937_SW015_220527**	**Normal**	**EM2210252**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.22	
		22 Nov 2023	**0937_SW015_231122**	**Normal**	**EM2320910**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW016	Off-Site	26 Oct 2016	OSW016	Normal	EM1612993	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.387	
		25 Mar 2020	0937_SW016_20200325	Normal	EM2005034	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68	
		22 Jun 2020	0937_SW016_20200622	Normal	EM2010690	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.47	
		13 Nov 2020	0937_SW016_201113	Normal	EM2020047	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.42	
		02 Feb 2021	0937_SW016_210202	Normal	EM2101562	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.58	
		30 Apr 2021	0937_SW016_20210430	Normal	EM2107855	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55	
		22 Nov 2023	0937_SW016_231122	Normal	EM2320910	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07	
SW019	Off-Site	28 Oct 2016	OSW019	Normal	EM1612987	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.098	
		06 Dec 2016	OSW019	Normal	EM1614830	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.108	
		03 Dec 2019	0937_SW019_191203	Normal	EM1920780	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		16 Mar 2020	0937_SW019_20200316	Normal	EM2004774	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		18 Jun 2020	0937_SW019_200618	Normal	EM2010385	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		12 Nov 2020	0937_SW019_201112	Normal	EM2020045	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_SW019_210203	Normal	EM2101568	<0.04	<0.09	<0.04		<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	<0.04	
		21 Apr 2021	0937_SW019_20210421	Normal	EM2107090	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Aug 2021	0937_SW019_210804	Normal	EM2115485	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		11 Nov 2021	0937_SW019_211111	Normal	EM2123008	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11	
		22 Feb 2022	0937_SW019_220222	Normal	EM2203193	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		29 May 2022	0937_SW019_220529	Normal	EM2210260	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		30 Aug 2022	0937_SW019_220830	Normal	EM2216989	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
		30 Nov 2022	0937_SW019_221130	Normal	EM2223922	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
		21 Nov 2023	0937_SW019_231121	Normal	EM2320917	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
SW030	Off-Site	26 Oct 2016	OSW030	Normal	EM1612981	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.469	
		04 Dec 2019	0937_SW030_191204	Normal	EM1920788	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.10	
		19 Mar 2020	0937_SW030_20200319	Normal	EM2004716	<0.002	<0.005	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	1.39	
		19 Jun 2020	0937_QC109_200619	Field_D	EM2010383	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.03	
			0937_QC209_200619	Interlab_D	726765	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.74	0.49
			0937_SW030_200619	Normal	EM2010383	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.02	
		12 Nov 2020	0937_SW030_201112	Normal	EM2020042	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.77	
		02 Feb 2021	0937_SW030_210202	Normal	EM2101566	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.15	
		29 Apr 2021	0937_SW030_20210429	Normal	EM2107807	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.09	
		05 Aug 2021	0937_SW030_210805	Normal	EM2115482	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		11 Nov 2021	0937_SW030_211111	Normal	EM2123005	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
		23 Feb 2022	0937_SW030_220223	Normal	EM2203198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.71	
		29 May 2022	0937_SW030_220529	Normal	EM2210257	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39	
		02 Sep 2022	0937_SW030_220902	Normal	EM2216993	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.98	
		30 Nov 2022	0937_SW030_221130	Normal	EM2223928	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
SW031	Off-Site	26 Oct 2016	OSW031	Normal	EM1612982	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.412	
		28 Nov 2019	0937_SW031_191128	Normal	EM1920529	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07	
		20 Mar 2020	0937_SW031_20200320	Normal	EM2004718	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		23 Jun 2020	0937_SW031_200623	Normal	EM2010696	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		13 Nov 2020	0937_SW031_201113	Normal	EM2020044	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14	
		02 Feb 2021	0937_SW031_210202	Normal	EM2101565	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.47	
		29 Apr 2021	0937_SW031_20210429	Normal	EM2107809	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.64	
		23 Nov 2023	0937_SW031_231123	Normal	EM2320915	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW032	Off-Site	26 Oct 2016	OSW032	Normal	EM1612982	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.175	
			QCA417	Field_D	EM1612868	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.184	
			QCB418	Interlab_D	521935	<0.01	<0.01	<0.05		<0.05		<0.05				<0.01	<0.05	<0.01			
		28 Nov 2019	0931_SW032_191128	Normal	EM1920529	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.36	
		20 Mar 2020	0937_SW032_20200320	Normal	EM2004718	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		23 Jun 2020	0937_SW032_200322	Normal	EM2010696	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		13 Nov 2020	0937_SW032_201113	Normal	EM2020044	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
		02 Feb 2021	0937_SW032_210202	Normal	EM2101565	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.94	
		04 May 2021	0937_SW032_20210504	Normal	EM2108092	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		06 Aug 2021	0937_SW032_210806	Normal	EM2115477	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		18 Nov 2021	0937_SW032_211118	Normal	EM2123007	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		24 Feb 2022	0937_SW032_220224	Normal	EM2203200	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		31 May 2022	0937_SW032_220531	Normal	EM2210258	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		01 Sep 2022	0937_SW032_220901	Normal	EM2216991	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		30 Nov 2022	0937_SW032_221130	Normal	EM2223921	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Nov 2023	0937_SW032_231123	Normal	EM2320915	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.05	
SW034	Off-Site	26 Oct 2016	OSW034	Normal	EM1612997	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.335	
		28 Nov 2019	0937_SW034_191128	Normal	EM1920529-AC	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74	
		20 Mar 2020	0937_SW034_20200320	Normal	EM2004707	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.04	
		18 Jun 2020	0937_SW034_20200618	Normal	EM2010382	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.00	
		13 Nov 2020	0937_SW034_201113	Normal	EM2020041	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.90	
		02 Feb 2021	0937_SW034_2102032	Normal	EM2101558	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.67	<0.05	<0.05	4.79	
		29 Apr 2021	0937_SW034_20210429	Normal	EM2107856	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.22	
		06 Aug 2021	0937_SW034_210806	Normal	EM2115478	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.09	
		17 Nov 2021	0937_SW034_211117	Normal	EM2123001	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.14	
		24 Feb 2022	0937_SW034_220224	Normal	EM2203197	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.92	
		31 May 2022	0937_SW034_220531	Normal	EM2210255	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.65	
		01 Sep 2022	0937_SW034_220901	Normal	EM2216994-AD	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.5	
		21 Nov 2023	0937_SW034_231121	Normal	EM2320912	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.23	
SW035	Off-Site	26 Oct 2016	OSW035	Normal	EM1612997	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.834	
		26 Mar 2020	0937_SW035_20200326	Normal	EM2005031	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.95	
		23 Jun 2020	0937_SW035_20200623	Normal	EM2010693	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50	
		13 Nov 2020	0937_SW035_201113	Normal	EM2020041	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.59	
		04 Feb 2021	0937_SW035_210204	Normal	EM2101558	<0.02	<0.05	0.06		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.10	
		29 Apr 2021	0937_SW035_20210429	Normal	EM2107856	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.97	
		24 Feb 2022	0937_SW035_220224	Normal	EM2203197	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.66	
		29 May 2022	0937_SW035_220529	Normal	EM2210255	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77	
		21 Nov 2023	0937_SW035_231121	Normal	EM2320912	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29	
SW041	Off-Site	26 Oct 2016	OSW041	Normal	EM1612997	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.406	
		28 Nov 2019	0937_SW041_191128	Normal	EM1920529-AC	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.77	
		20 Mar 2020	0937_SW041_20200320	Normal	EM2004707	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.22	
		18 Jun 2020	0937_SW041_20200618	Normal	EM2010382	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.34	
		13 Nov 2020	0937_SW041_201113	Normal	EM2020041	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.71	
		02 Feb 2021	0937_SW041_210203	Normal	EM2101558	<0.02	<0.05	0.03		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.69	
		29 Apr 2021	0937_SW041_20210429	Normal	EM2107856	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65	
		06 Aug 2021	0937_SW041_210806	Normal	EM2115478	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20	
		11 Nov 2021	0937_SW041_211111	Normal	EM2123001	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44	
		24 Feb 2022	0937_SW041_220224	Normal	EM2203197	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.19	
		28 May 2022	0937_SW041_220529	Normal	EM2210255	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.57	
		01 Sep 2022	0937_SW041_220901	Normal	EM2216994-AD	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61	
		21 Nov 2023	0937_SW041_231121	Normal	EM2320912	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.92	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW049	**Off-Site**	**27 Oct 2016**	**OSW049**	**Normal**	**EM1613003**	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0	
		03 Dec 2019	**0937_SW049_191203**	**Normal**	**EM1920780**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		19 Mar 2020	**0937_SW049_**	**Normal**	**EM2004719**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		18 Jun 2020	**0937_SW049_20200618**	**Normal**	**EM2010386**	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.62	
		12 Nov 2020	**0937_SW049_201112**	**Normal**	**EM2020046**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		01 Feb 2021	**0937_SW049_210201**	**Normal**	**EM2101559**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		21 Apr 2021	**0937_SW049_20210421**	**Normal**	**EM2107088**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		06 Aug 2021	**0937_SW049_210806**	**Normal**	**EM2115480**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.11	
		18 Nov 2021	**0937_SW049_211118**	**Normal**	**EM2123002**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.90	
		22 Feb 2022	**0937_SW049_220222**	**Normal**	**EM2203201**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		31 May 2022	**0937_SW049_220531**	**Normal**	**EM2210259**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 Aug 2022	**0937_SW049_220829**	**Normal**	**EM2216987**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.58	
		01 Dec 2022	**0937_SW049_221201**	**Normal**	**EM2223923**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.96	
		23 Nov 2023	**0937_SW049_231123**	**Normal**	**EM2320918**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
SW052	**Off-Site**	**26 Oct 2016**	**OSW052**	**Normal**	**EM1612985**	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.763	
		04 Dec 2019	**0937_SW052_191204**	**Normal**	**EM1920785**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.42	
		19 Mar 2020	**0937_SW052_20200319**	**Normal**	**EM2004717**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.7	
		23 Jun 2020	**0937_SW052-200623**	**Normal**	**EM2010691**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.3	
		12 Nov 2020	**0937_SW052_201112**	**Normal**	**EM2020043**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.84	
		04 Feb 2021	**0937_SW052_210204**	**Normal**	**EM2101564**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.87	
		29 Apr 2021	**0937_SW052_20210429**	**Normal**	**EM2107806**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.66	
		05 Aug 2021	**0937_SW052_210805**	**Normal**	**EM2115484**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.83	
		11 Nov 2021	**0937_SW052_211111**	**Normal**	**EM2123006**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.29	
		23 Feb 2022	**0937_SW052_220223**	**Normal**	**EM2203199**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.27	
		28 May 2022	**0937_SW052_220528**	**Normal**	**EM2210256**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81	
		01 Sep 2022	**0937_SW052_220901**	**Normal**	**EM2216992**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.08	
		21 Nov 2023	**0937_SW052_231121**	**Normal**	**EM2320914**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50	
SW077	**Off-Site**	**02 Dec 2019**	**0937_QC209_191202**	**Interlab_D**	**692892**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	0.03
		03 Dec 2019	**0937_QC109_191203**	**Field_D**	**EM1920780**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
			0937_SW077_191203	**Normal**	**EM1920780**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		18 Mar 2020	**0937_SW077_20200318**	**Normal**	**EM2004708**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		22 Jun 2020	**0937_SW077_20200622**	**Normal**	**EM2010695**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		13 Nov 2020	**0937_SW077_201113**	**Normal**	**EM2020052**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		04 Feb 2021	**0937_SW077_210204**	**Normal**	**EM2101560**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		21 Apr 2021	**0937_SW077_2021042**	**Normal**	**EM2107087**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		05 Aug 2021	**0937_SW077_210805**	**Normal**	**EM2115569**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		17 Nov 2021	**0937_SW077_211117**	**Normal**	**EM2123079**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		21 Feb 2022	**0937_SW077_220221**	**Normal**	**EM2203192**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		31 May 2022	**0937_SW077_220531**	**Normal**	**EM2210253**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		02 Sep 2022	**0937_SW077_220902**	**Normal**	**EM2216985**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		01 Dec 2022	**0937_SW077_221201**	**Normal**	**EM2223925**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Nov 2023	**0937_SW077_231122**	**Normal**	**EM2320919**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW080	Off-Site	04 Dec 2019	0937_SW080_191204	Normal	EM1920780	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		25 Mar 2020	0937_SW080_20200325	Normal	EM2005032	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		22 Jun 2020	0937_SW080_20200621	Normal	EM2010695	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		13 Nov 2020	0937_SW080_201113	Normal	EM2020052	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		04 Feb 2021	0937_SW080_210202	Normal	EM2101560	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Apr 2021	0937_SW080_20210430	Normal	EM2107805	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		06 Aug 2021	0937_SW080_210806	Normal	EM2115569	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		11 Nov 2021	0937_SW080_211111	Normal	EM2123079	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		23 Feb 2022	0937_SW080_220223	Normal	EM2203192	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		31 May 2022	0937_SW080_220527	Normal	EM2210253	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		31 Aug 2022	0937_QC113_220831	Field_D	EM2216985	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
			0937_QC213_220831	Interlab_D	922406	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.1	<0.01
			0937_SW080_220831	Normal	EM2216985	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Nov 2023	0937_SW080_231122	Normal	EM2320919	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
SW082	Off-Site	04 Dec 2019	0937_SW082_191204	Normal	EM1920787	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.36	
		25 Mar 2020	0937_SW082_20200325	Normal	EM2005034	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49	
		22 Jun 2020	0937_SW082_200623	Normal	EM2010690	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.28	
		13 Nov 2020	0936_SW082_201113	Normal	EM2020047	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20	
		02 Feb 2021	0937_SW082_210202	Normal	EM2101562	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55	
		30 Apr 2021	0937_SW082_20210430	Normal	EM2107855	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55	
		06 Aug 2021	0937_SW082_210806	Normal	EM2115483	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		11 Nov 2021	0937_SW082_211111	Normal	EM2123004	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		23 Feb 2022	0937_SW082_220223	Normal	EM2203194	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18	
		27 May 2022	0937_SW082_220527	Normal	EM2210252	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24	
		31 Aug 2022	0937_SW082_220831	Normal	EM2216996	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.06	
		22 Nov 2023	0937_SW082_231122	Normal	EM2320910	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.04	
SW088	Off-Site	04 Dec 2019	0937_SW088_191204	Normal	EM1920784	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.34	
		19 Mar 2020	0937_SW088_20200319	Normal	EM2004706	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.51	
		18 Jun 2020	0937_SW088_20200618	Normal	EM2010381	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.75	
		12 Nov 2020	0937_SW088_201112	Normal	EM2020047	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.6	
		02 Feb 2021	0937_SW088_210202	Normal	EM2101562	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.75	
		29 Apr 2021	0937_SW088_20210429	Normal	EM2107855	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12	
		05 Aug 2021	0937_SW088_210805	Normal	EM2115483	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.12	
		11 Nov 2021	0937_SW088_211111	Normal	EM2123004	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31	
		22 Feb 2022	0937_SW088_220222	Normal	EM2203194	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.66	
		29 May 2022	0937_SW088_220529	Normal	EM2210252	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29	
		31 Aug 2022	0937_SW088_220831	Normal	EM2216996	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.17	
		21 Nov 2023	0937_SW088_231121	Normal	EM2320910	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.46	
SW089	Off-Site	04 Dec 2019	0937_SW089_191204	Normal	EM1920787	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.77	
		25 Mar 2020	0937_SW089_20200325	Normal	EM2005034	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.08	
		22 Jun 2020	0937_SW089_20200623	Normal	EM2010690	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.68	
		13 Nov 2020	0937_SW089_201113	Normal	EM2020047	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.51	
		02 Feb 2021	0937_SW089_210202	Normal	EM2101562	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.98	
		30 Apr 2021	0937_SW089_20210430	Normal	EM2107855	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.06	
		04 Aug 2021	0937_SW089_210804	Normal	EM2115483	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.29	
		10 Nov 2021	0937_SW089_211110	Normal	EM2123004	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20	
		22 Feb 2022	0937_SW089_220222	Normal	EM2203194	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54	
		27 May 2022	0937_SW089_220527	Normal	EM2210252	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32	
		31 Aug 2022	0937_SW089_220831	Normal	EM2216996	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.26	
		21 Nov 2023	0937_SW089_231121	Normal	EM2320910	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.16	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW092	Off-Site	03 Dec 2019	0937_SW092_191203	Normal	EM1920780	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		16 Mar 2020	0937_SW092_20200316	Normal	EM2004774	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		18 Jun 2020	0937_SW092_20200618	Normal	EM2010385	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
		12 Nov 2020	0937_SW092_201112	Normal	EM2020045	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_SW092_210203	Normal	EM2101568	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		21 Apr 2021	0937_SW092_20210421	Normal	EM2107090	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Aug 2021	0937_SW092_210804	Normal	EM2115485	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		11 Nov 2021	0937_SW092_211111	Normal	EM2123008	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.07	
		22 Feb 2022	0937_SW092_220222	Normal	EM2203193	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		29 May 2022	0937_SW092_220529	Normal	EM2210260	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Aug 2022	0937_SW092_220830	Normal	EM2216989	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Nov 2022	0937_SW092_221130	Normal	EM2223922	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		21 Nov 2023	0937_SW092_231121	Normal	EM2320917	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.03	
SW093	Off-Site	03 Dec 2019	0937_SW093_191203	Normal	EM1920780	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		16 Mar 2020	0937_SW093_20200316	Normal	EM2004708	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.02	
		18 Jun 2020	0937_SW093_200618	Normal	EM2010387	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		12 Nov 2020	0937_SW093_201112	Normal	EM2020052	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		03 Feb 2021	0937_SW093_210203	Normal	EM2101560	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		21 Apr 2021	0937_SW093_20210421	Normal	EM2107087	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		04 Aug 2021	0937_SW093_210804	Normal	EM2115569	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		11 Nov 2021	0937_SW093_211111	Normal	EM2123079	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		22 Feb 2022	0937_SW093_220222	Normal	EM2203192	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		29 May 2022	0937_SW093_220529	Normal	EM2210253	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Aug 2022	0937_SW093_220830	Normal	EM2216985	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
		30 Nov 2022	0937_SW093_221130	Normal	EM2223925	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.01	
		21 Nov 2023	0937_SW093_231121	Normal	EM2320919	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
SW201	On-Site	12 Nov 2021	0937_SW201_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.62	
		23 Aug 2022	0937_QC103_220823	Field_D	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.8	
			0937_QC203_220823	Interlab_D	922647	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	15.8	13.56
			0937_SW201_220823	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	13.1	
		22 Nov 2022	0937_SW201_221122	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.8	
SW203	On-Site	20 Nov 2019	0937_SW203_191120	Normal	EM1920039	<0.02	<0.05	0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	29.7	
		17 Mar 2020	0937_SW203_20200317	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.66	
		15 Jun 2020	0937_SW203_20200615	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.93	
		10 Nov 2020	0937_SW203_201110	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.4	
		03 Feb 2021	0937_SW203_210203	Normal	EM2101575	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.37	
		22 Apr 2021	0937_ SW203 _20210422	Normal	EM2107085	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.25	
		13 Jul 2021	0937_QC105_210713	Field_D	EM2113872-AB	<0.04	<0.11	<0.04		<0.11	<0.11	<0.11	<0.11	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	163	
			0937_QC205_210713	Interlab_D	811260	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	234	139.2
			0937_SW203_210713	Normal	EM2113872-AB	<0.04	<0.10	<0.04		<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	152	
		12 Nov 2021	0937_SW203_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.79	
		15 Feb 2022	0937_SW203_220215	Normal	EM2202703	<0.02	<0.05	0.03		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	43.7	
		25 May 2022	0937_QC102_220525	Field_D	EM2210316	<0.02	<0.05	0.03		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.8	
			0937_QC202_220525	Interlab_D	893740	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	22.29	19.96
			0937_SW203_220525	Normal	EM2210316	<0.02	<0.05	0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.7	
		23 Aug 2022	0937_SW203_220823	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.8	
		24 Nov 2022	0937_SW203_221124	Normal	EM2223510	<0.04	<0.09	<0.04		<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	103	
		16 Nov 2023	0937_SW203_231116	Normal	EM2320952	<0.02	<0.05	0.03		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.2	
SW206	On-Site	13 Oct 2016	SW206	Normal	EM1612198	<0.02	<0.05	0.08		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	36.4	1.37	0.25	67.4	
		28 Jan 2021	0937_SW206_210128	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.20	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW208	**On-Site**	**14 Oct 2016**	**SW208**	**Normal**	**EM1612198**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.42	
		17 Mar 2020	**0937_SW208_20200317**	**Normal**	**EM2004711**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.56	
		15 Jun 2020	**0937_SW208_200615**	**Normal**	**EM2010514**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61	
		10 Nov 2020	**0937_QC107_201110**	**Field_D**	**EM2020050**	<0.02	<0.05	0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	3.20	
			0937_QC207_201110	**Interlab_D**	**757178**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.22	<0.01	<0.01	3.64	2.45
			0937_SW208_201110	**Normal**	**EM2020050**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	2.96	
		28 Jan 2021	**0937_SW208_210128**	**Normal**	**EM2101229**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.53	
		28 Apr 2021	**0937_ SW208 _20210428**	**Normal**	**EM2107858**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49	
		13 Jul 2021	**0937_SW208_210713**	**Normal**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.68	
		12 Nov 2021	**0937_SW208_211112**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.08	
		16 Feb 2022	**0937_QC108_220216**	**Field_D**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.22	<0.05	<0.05	4.85	
			0937_QC208_220216	**Interlab_D**	**864735**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.6	<0.01	<0.01	3.42	1.13
			0937_SW208_220216	**Normal**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.56	<0.05	<0.05	5.26	
		25 May 2022	**0937_QC103_220525**	**Field_D**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.66	<0.05	<0.05	2.70	
			0937_QC203_220525	**Interlab_D**	**893740**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.76	0.48
			0937_SW208_220525	**Normal**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.63	<0.05	<0.05	2.30	
		23 Aug 2022	**0937_SW208_220823**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.62	<0.05	<0.05	2.23	
		24 Nov 2022	**0937_SW208_221124**	**Normal**	**EM2223510**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.52	<0.05	<0.05	3.89	
SW209	**On-Site**	**21 Oct 2016**	**SW209**	**Normal**	**EM1612570**	<0.1	<0.25	0.3		<0.25	<0.25	<0.25	<0.25	<0.1	<0.1	<0.1	0.6	0.66	<0.1	304	
		20 Nov 2019	**0937_SW209_191120**	**Normal**	**EM1920039**	<0.02	<0.05	0.54		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	4.18	0.10	<0.05	45.1	
		17 Mar 2020	**0937_SW209_20200317**	**Normal**	**EM2004711**	<0.02	<0.05	0.72		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.48	0.06	<0.05	41.2	
		16 Jun 2020	**0937_SW209_200616**	**Normal**	**EM2010514**	<0.02	<0.05	0.46		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.97	0.06	<0.05	24.1	
		23 Jun 2020	**0937_SW209_20200623**	**Normal**	**EM2010697**																
		10 Nov 2020	**0937_SW209_201110**	**Normal**	**EM2020050**	<0.04	<0.10	0.17		<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	2.85	<0.05	<0.05	21.0	
		28 Jan 2021	**0937_SW209_210128**	**Normal**	**EM2101229**	<0.02	<0.05	0.29		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	20.4	
		22 Apr 2021	**0937_ SW209 _2022042**	**Normal**	**EM2107085**	<0.02	<0.05	0.55		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.0	
		13 Jul 2021	**0937_SW209_210713**	**Normal**	**EM2113872-AB**	<0.04	<0.09	0.25		<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.66	<0.05	<0.05	24.0	
		15 Nov 2021	**0937_QC110_211115**	**Field_D**	**EM2123080**	<0.02	<0.05	0.11		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	53.2	
			0937_QC210_211115	**Interlab_D**	**842318**	<0.01	<0.01	0.09		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	0.02	<0.01	72.74	64.4
			0937_SW209_211115	**Normal**	**EM2123080**	<0.02	<0.05	0.11		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	53.1	
		22 Feb 2022	**0937_SW209_220222**	**Normal**	**EM2203247**	<0.04	<0.09	0.1		<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.44	<0.05	<0.05	19.7	
		23 Aug 2022	**0937_SW209_220823**	**Normal**	**EM2216476**	<0.02	<0.05	0.09		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.82	
		24 Nov 2022	**0937_SW209_221124**	**Normal**	**EM2223510**	0.02	<0.05	1.23		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	57.9	
		17 Nov 2023	**0937_QC117_231117**	**Field_D**	**EM2320952**	<0.04	<0.09	0.12		<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	0.11	<0.05	<0.05	24.8	
			0937_QC217_231117	**Interlab_D**	**1048259**	<0.05	<0.05	0.08		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.07	<0.05	<0.01	19.37	14.53
			0937_SW209_231117	**Normal**	**EM2320952**	<0.02	<0.05	0.18		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	22.9	
SW216	**On-Site**	**21 Oct 2016**	**SW216**	**Normal**	**EM1612570**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	18.2	
		03 Aug 2021	**0937_SW216_210803**	**Normal**	**EM2115476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.22	
		17 Feb 2022	**0937_SW216_220217**	**Normal**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.78	
		24 Nov 2022	**0937_SW216_221124**	**Normal**	**EM2223510**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.35	
SW217	**On-Site**	**16 Nov 2021**	**0937_SW217_211116**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10.4	
		26 Aug 2022	**0937_SW217_220826**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	23.2	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW222	On-Site	12 Oct 2016	SW222	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62	
		16 Jun 2020	0937_SW222_20200616	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.65	
		28 Jan 2021	0937_SW222_210128	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.97	
		13 Jul 2021	0937_SW222_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.43	
		15 Nov 2021	0937_QC112_211115	Field_D	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	3.31	
			0937_QC212_211115	Interlab_D	842318	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.09	<0.01	<0.01	4.66	3.45
			0937_SW222_211115	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	3.24	
		17 Feb 2022	0937_QC110_220217	Field_D	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.84	<0.05	<0.05	1.65	
			0937_QC210_220217	Interlab_D	864735	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.96	<0.01	<0.01	1.97	0.54
			0937_SW222_220217	Normal	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.79	<0.05	<0.05	1.47	
		25 May 2022	0937_QC108_220525	Field_D	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	6.88	<0.05	<0.05	10.0	
			0937_QC208_220525	Interlab_D	893740	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	7.0	<0.01	<0.01	9.43	0.56
			0937_SW222_220525	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	6.71	<0.05	<0.05	9.96	
		24 Aug 2022	0937_SW222_220824	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.16	<0.05	<0.05	4.60	
		24 Nov 2022	0937_SW222_221124	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	12.5	<0.05	<0.05	16.1	
SW223	On-Site	12 Oct 2016	SW223	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.98	
		20 Mar 2020	0937_SW223_20200317	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.20	<0.05	<0.05	1.49	
		16 Jun 2020	0937_SW223_20200616	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.03	
		23 Jun 2020	0937_SW223_20200623	Normal	EM2010697																
		10 Nov 2020	0937_SW223_201110	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.13	
		28 Jan 2021	0937_SW223_210128	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.24	
		28 Apr 2021	0937_QC109_20210428	Field_D	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44	
			0937_ SW223_20210428	Normal	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.49	
			QC209_20210428	Interlab_D	792537	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	0.57	0.45
		14 Jul 2021	0937_QC208_210713	Interlab_D	811260	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	9.04	5.52
			0937_SW223_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.72	
		15 Nov 2021	0937_SW223_211115	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	2.85	
		17 Feb 2022	0937_QC109_220217	Field_D	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.78	<0.05	<0.05	1.48	
			0937_QC209_220217	Interlab_D	864735	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.91	<0.01	<0.01	1.86	0.44
			0937_SW223_220217	Normal	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.86	<0.05	<0.05	1.52	
		25 May 2022	0937_QC109_220525	Field_D	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.64	<0.05	<0.05	5.15	
			0937_QC209_220525	Interlab_D	893740	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	2.1	<0.01	<0.01	3.67	0.48
			0937_SW223_220525	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.05	<0.05	<0.05	3.87	
		24 Aug 2022	0937_QC105_220824	Field_D	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.91	<0.05	<0.05	3.28	
			0937_QC205_220824	Interlab_D	922647	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.85	<0.01	<0.01	4.15	2.43
			0937_SW223_220824	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.89	<0.05	<0.05	3.44	
		24 Nov 2022	0937_SW223_221124	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	6.90	<0.05	<0.05	9.37	
		16 Nov 2023	0937_SW223_231116	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	4.55	<0.05	<0.05	6.29	
SW226	On-Site	12 Nov 2021	0937_SW226_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.50	
		23 Aug 2022	0937_SW226_220823	Normal	EM2216476	<0.04	<0.10	0.18		<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	55.0	
		23 Nov 2022	0937_QC206_221123	Interlab_D	945182	<0.01	<0.01	0.40		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	77.56	53.89
			0937_SW226_221123	Normal	EM2223510	<0.04	<0.09	0.38		<0.09	<0.09	<0.09	<0.09	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	90.0	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW227	On-Site	14 Oct 2016	SW227	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.27	
		25 Nov 2019	0937_SW227_191125	Normal	EM1920529	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.35	
		17 Mar 2020	0937_SW227_20200317	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.85	
		16 Jun 2020	0937_SW227_200616	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.99	
		10 Nov 2020	0937_SW227_201110	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.42	
		28 Jan 2021	0937_SW227_210128	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.08	
		28 Apr 2021	0937_ SW227_20210428	Normal	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.89	
		14 Jul 2021	0937_QC111_210714	Field_D	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.18	
			0937_QC211_210714	Interlab_D	811260	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.56	0.87
			0937_SW227_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.28	
		16 Nov 2021	0937_SW227_211116	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.28	
		21 Feb 2022	0937_SW227_220221	Normal	EM2203247	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74	
		25 May 2022	0937_QC110_220525	Field_D	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.22	
			0937_QC210_220525	Interlab_D	893740	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.31	1.57
			0937_SW227_220525	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.91	
		24 Aug 2022	0937_QC106_220824	Field_D	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.32	
			0937_QC206_220824	Interlab_D	922647	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.74	1.09
			0937_SW227_220824	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.39	
		24 Nov 2022	0937_SW227_221124	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.64	
		16 Nov 2023	0937_QC115_231116	Field_D	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.58	
			0937_QC215_231116	Interlab_D	1048259	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.61	1.07
			0937_SW227_231116	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.53	
SW230	On-Site	13 Oct 2016	SW230	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.13	
		25 Nov 2019	0937_SW230_191125	Normal	EM1920529	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89	
		18 Mar 2020	0937_SW230_20200318	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	0.60	
		17 Jun 2020	0937_SW230_200617	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.61	
		11 Nov 2020	0937_SW230_201111	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.57	
		01 Feb 2021	0937_SW230_210201	Normal	EM2101575	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.51	
		27 Apr 2021	0937_ SW230_20210427	Normal	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.09	
		15 Jul 2021	0937_SW230_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65	
		12 Nov 2021	0937_SW230_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.65	
		18 Feb 2022	0937_SW230_220218	Normal	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.83	<0.05	<0.05	4.47	
		30 May 2022	0937_SW230_220530	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.55	<0.05	<0.05	3.04	
		22 Aug 2022	0937_SW230_220822_1620	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.47	<0.05	<0.05	2.90	
		23 Aug 2022	0937_SW230_220823	Normal	EM2216476																
			0937_SW230_220823_0855	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	1.75	
			0937_SW230_220823_1115	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	1.77	
			0937_SW230_220823_1545	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	2.20	
		24 Aug 2022	0937_SW230_220824_0940	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.40	<0.05	<0.05	4.00	
			0937_SW230_220824_1540	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.44	<0.05	<0.05	4.32	
		25 Aug 2022	0937_SW230_220825_0855	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.56	<0.05	<0.05	5.15	
			0937_SW230_220825_1545	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.65	<0.05	<0.05	5.56	
		26 Aug 2022	0937_SW230_220826_0940	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.81	<0.05	<0.05	6.10	
		29 Nov 2022	0937_SW230_221129	Normal	EM2223972	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	8.41	<0.05	<0.05	11.4	
		15 Nov 2023	0937_QC105_231115	Field_D	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.84	<0.05	<0.05	3.51	
			0937_QC205_231115	Interlab_D	1048259	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.6	<0.01	<0.01	3.29	0.62
			0937_SW230_231115	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.84	<0.05	<0.05	3.63	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW231	**On-Site**	**13 Oct 2016**	**QCA296**	**Field_D**	**EM1612198**	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	24.3	
			QCB297	**Interlab_D**	**519950**	<0.01	<0.01	<0.05		<0.05		<0.05				<0.01	<0.05	<0.01			
			SW231	**Normal**	**EM1612198**	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	27.1	
		26 Nov 2019	**0937_SW231_191126**	**Normal**	**EM1920529**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.81	
		17 Mar 2020	**0937_SW231_20200318**	**Normal**	**EM2004711**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.41	
		16 Jun 2020	**0937_SW231_200616**	**Normal**	**EM2010514**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.58	
		10 Nov 2020	**0937_SW231_201110**	**Normal**	**EM2020050**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.83	
		29 Jan 2021	**0937_QC107_210129**	**Field_D**	**EM2101229**	<0.04	<0.10	<0.04		<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	<0.05	<0.05	<0.05	4.91	
			0937_QC207_210128	**Interlab_D**	**770470**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	6.6	5.46
			0937_SW231_210129	**Normal**	**EM2101229**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.34	
		26 Apr 2021	**0937_ SW231 _20210426**	**Normal**	**EM2107858**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.53	
		15 Jul 2021	**0937_SW231_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.27	
		12 Nov 2021	**0937_SW231_211112**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.60	
		18 Feb 2022	**0937_QC116_220218**	**Field_D**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.7	
			0937_QC216_220218	**Interlab_D**	**864735**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	5.53	4.86
			0937_SW231_220218	**Normal**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.78	
		26 May 2022	**0937_SW231_220526**	**Normal**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.5	
		23 Aug 2022	**0937_SW231_220823**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31	
		29 Nov 2022	**0937_SW231_221128**	**Normal**	**EM2223972**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	21.3	
		20 Nov 2023	**0937_SW231_231120**	**Normal**	**EM2320952**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14.9	
SW233	**On-Site**	**13 Oct 2016**	**SW233**	**Normal**	**EM1612198**	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	24.2	
		26 Nov 2019	**0937_SW233_191126**	**Normal**	**EM1920529**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.29	
		26 Mar 2020	**0937_SW233_20200326**	**Normal**	**EM2005033**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.18	
		16 Jun 2020	**0937_SW233_200616**	**Normal**	**EM2010514**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.62	
		23 Jun 2020	**0937_SW233_200623**	**Normal**	**EM2010697**																
		10 Nov 2020	**0937_QC108_201110**	**Field_D**	**EM2020050**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.21	
			0937_QC208_201110	**Interlab_D**	**757178**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	4.32	3.66
			0937_SW233_201110	**Normal**	**EM2020050**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.41	
		28 Jan 2021	**0937_SW233_210128**	**Normal**	**EM2101229**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.54	
		26 Apr 2021	**0937_ SW233 _20210426**	**Normal**	**EM2107858**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.17	
		15 Jul 2021	**0937_SW233_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.51	
		15 Nov 2021	**0937_SW233_211115**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.38	
		17 Feb 2022	**0937_SW233_220217**	**Normal**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.82	
		26 May 2022	**0937_SW233_220526**	**Normal**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.70	
		25 Aug 2022	**0937_SW233_220825**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.14	
		24 Nov 2022	**0937_SW233_221124**	**Normal**	**EM2223510**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.42	
		16 Nov 2023	**0937_SW233_231116**	**Normal**	**EM2320952**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.49	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW238	On-Site	13 Oct 2016	SW238	Normal	EM1612198	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	15	
		22 Nov 2019	0937_SW238_191122	Normal	EM1920034	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	4.63	
		16 Jun 2020	0937_SW238_20200616	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.86	
		10 Nov 2020	0937_SW238	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.70	
		29 Jan 2021	0937_SW238_210129	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	2.78	
		26 Apr 2021	0937_ SW238 _20210426	Normal	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.99	
		15 Jul 2021	0937_QC118_210715	Field_D	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.23	
			0937_SW238_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.60	
		12 Nov 2021	0937_SW238_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	1.72	
		18 Feb 2022	0937_QC118_220218	Field_D	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	9.96	
			0937_QC218_220218	Interlab_D	864735	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	10.06	7.85
			0937_SW238_220218	Normal	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	8.69	
		26 May 2022	0937_SW238_220526	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.84	
		22 Aug 2022	0937_SW238_220822_1500	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.72	
		23 Aug 2022	0937_SW238_220823_0755	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.32	
			0937_SW238_220823_1035	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.64	
			0937_SW238_220823_1505	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50	
		24 Aug 2022	0937_SW238_220824_0900	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.03	
			0937_SW238_220824_1505	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.54	
		25 Aug 2022	0937_SW238_220825_0815	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.95	
			0937_SW238_220825_1510	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.79	
		26 Aug 2022	0937_SW238_220826_0910	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.78	
		29 Nov 2022	0937_SW238_221128	Normal	EM2223972	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.86	
		20 Nov 2023	0937_SW238_231120	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.74	
SW239	On-Site	13 Oct 2016	SW239	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.4	
		26 Nov 2019	0937_SW239_191126	Normal	EM1920529	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.01	<0.05	<0.05	7.20	
		16 Jun 2020	0937_SW239_20200616	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.29	<0.05	<0.05	12.1	
		10 Nov 2020	0937_SW239_201110	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.70	<0.05	<0.05	22.2	
		28 Jan 2021	0937_SW239_210128	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.89	<0.05	<0.05	5.75	
		26 Apr 2021	0937_QC105_20210426	Field_D	EM2107858	<0.02	<0.05	0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.60	<0.05	<0.05	8.24	
			0937_ SW239 _20210426	Normal	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.59	<0.05	<0.05	7.15	
			QC205_20210426	Interlab_D	792537	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.73	<0.01	<0.01	11.39	8.99
		15 Jul 2021	0937_SW239_210715	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.71	<0.05	<0.05	5.85	
		12 Nov 2021	0937_SW239_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.50	
		17 Feb 2022	0937_SW239_220217	Normal	EM2202703	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.96	<0.05	<0.05	8.26	
		26 May 2022	0937_SW239_220526	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	15.8	
		22 Aug 2022	0937_SW239_220822_1440	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	12.6	
		23 Aug 2022	0937_SW239_220823_0730	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.14	<0.05	<0.05	4.02	
			0937_SW239_220823_1005	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	5.27	
			0937_SW239_220823_1440	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.15	<0.05	<0.05	7.24	
		24 Aug 2022	0937_SW239_220824_0830	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	4.20	
			0937_SW239_220824_1430	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	4.71	
		25 Aug 2022	0937_SW239_220825_0745	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	6.33	
			0937_SW239_220825_1455	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.16	<0.05	<0.05	8.07	
		26 Aug 2022	0937_SW239_220826_0830	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.31	<0.05	<0.05	12.4	
		24 Nov 2022	0937_SW239_221124	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.28	<0.05	<0.05	11.0	
		17 Nov 2023	0937_SW239_231117	Normal	EM2320952	<0.03	<0.09	0.06		<0.09	<0.09	<0.09	<0.09	<0.03	<0.03	<0.05	0.11	<0.05	<0.05	23.1	
SW242	On-Site	12 Oct 2016	SW242	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.9	
		13 Jul 2021	0937_QC209_210713	Interlab_D	811260	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.6	1.29
		14 Jul 2021	0937_QC109_210714	Field_D	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.12	
			0937_SW242_210714	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.22	
		12 Nov 2021	0937_SW242_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65	
		24 Aug 2022	0937_SW242_220824	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.65	
		23 Nov 2022	0937_QC204_221123	Interlab_D	945182	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	2.22	2.04
			0937_SW242_221123	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.74	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW246	On-Site	18 Mar 2020	0937_SW246_20200318	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	1.40	
		17 Jun 2020	0937_SW246_200617	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.60	
		13 Nov 2020	0937_SW246_201111	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.91	
		01 Feb 2021	0937_SW246_210201	Normal	EM2101575	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.73	
		27 Apr 2021	0937_QC107_20210427	Field_D	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65	
			0937_ SW246_20210427	Normal	EM2107858	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.21	
			QC207_20210427	Interlab_D	792537	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.99	1.51
		04 Aug 2021	0937_SW246_210804	Normal	EM2115476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.13	
		12 Nov 2021	0937_SW246_211112	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.21	
		30 May 2022	0937_SW246_220530	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.28	<0.05	<0.05	3.69	
		22 Aug 2022	0937_SW246_220822_1615	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.97	
		23 Aug 2022	0937_SW246_220823	Normal	EM2216476																
			0937_SW246_220823_0855	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.44	
			0937_SW246_220823_1115	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54	
			0937_SW246_220823_1455	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62	
		24 Aug 2022	0937_SW246_220824_0940	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.93	
			0937_SW246_220824_1540	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.89	
		25 Aug 2022	0937_SW246_220825_0855	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.85	
			0937_SW246_220825_1545	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.83	
		26 Aug 2022	0937_SW246_220826_0940	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.95	
		29 Nov 2022	0937_SW246_221129	Normal	EM2223972	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	12.4	<0.05	<0.05	16.4	
		15 Nov 2023	0937_SW246_231115	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	2.57	<0.05	<0.05	7.12	
SW251	On-Site	13 Oct 2016	SW251	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	<0.01	
																				13.1	
		22 Nov 2019	0937_SW251_191122	Normal	EM1920034	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.75	<0.05	<0.05	6.50	
		20 Mar 2020	0937_SW251_20200320	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	1.47	
		17 Jun 2020	0937_SW251_200617	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.07	
		23 Jun 2020	0937_SW251_200623	Normal	EM2010697																
		12 Nov 2020	0937_SW251_201112	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.22	<0.05	<0.05	4.24	
		29 Jan 2021	0937_SW251_210129	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.18	
		20 Apr 2021	0937_ SW251 _20210420	Normal	EM2107085	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.45	
		05 Aug 2021	0937_SW251_210805	Normal	EM2115476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.13	<0.05	<0.05	3.87	
		16 Nov 2021	0937_SW251_211116	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.06	<0.05	<0.05	3.30	
		21 Feb 2022	0937_SW251_220221	Normal	EM2203247	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.57	<0.05	<0.05	14.6	
		31 May 2022	0937_SW251_220530	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.18	<0.05	<0.05	17.3	
		22 Aug 2022	0937_SW251_220822_1600	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	5.09	
		23 Aug 2022	0937_SW251_220823_1615	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.12	<0.05	<0.05	5.03	
			0937_SW251_220823_2215	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.08	<0.05	<0.05	3.42	
		24 Aug 2022	0937_SW251_220824_0415	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.31	
			0937_SW251_220824_1615	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.32	
		25 Aug 2022	0937_SW251_220825_1650	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.07	
		26 Aug 2022	0937_SW251_220823_1320	Normal	EM2216498	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.86	
		30 Nov 2022	0937_SW251_221130	Normal	EM2223972	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	7.96	
		15 Nov 2023	0937_QC107_231115	Field_D	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	11.8	
			0937_QC207_231115	Interlab_D	1048259	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.10	<0.01	<0.01	11.68	9.56
			0937_SW251_231115	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	10.3	

						Perfluorocarbons														
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW252	**On-Site**	**12 Oct 2016**	**QCA300**	**Field_D**	**EM1612198**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.35	
			QCB301	**Interlab_D**	**519950**	<0.3	<0.3	<1.5		<1.5		<1.5				<0.3	<1.5	<0.3			
			SW252	**Normal**	**EM1612198**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	7.07	
		17 Jun 2020	**0937_QC102_200617**	**Field_D**	**EM2010514**	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.99	
			0937_QC202_200617	**Interlab_D**	**726765**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	1.86	1.73
			0937_SW252_200617	**Normal**	**EM2010514**	<0.05	<0.12	<0.05		<0.12	<0.12	<0.12	<0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.54	
		15 Jul 2021	**0937_SW252_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.55	
		16 Nov 2021	**0937_SW252_211116**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.62	
		25 Aug 2022	**0937_SW252_220825**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.39	
		29 Nov 2022	**0937_SW252_221129**	**Normal**	**EM2223972**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.29	
		15 Nov 2023	**0937_SW252_231115**	**Normal**	**EM2320952**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.85	
SW256	**On-Site**	**13 Oct 2016**	**SW256**	**Normal**	**EM1612198**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	20	
		16 Jun 2020	**0937_SW256_20200616**	**Normal**	**EM2010514**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.37	<0.05	<0.05	8.08	
		10 Nov 2020	**0937_QC104_201110**	**Field_D**	**EM2020050**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.97	<0.05	<0.05	14.1	
			0937_QC204_201110	**Interlab_D**	**757178**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.96	<0.01	<0.01	21.19	16.5
			0937_SW256_201110	**Normal**	**EM2020050**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.88	<0.05	<0.05	14.5	
		28 Jan 2021	**0937_SW256_210128**	**Normal**	**EM2101229**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.52	<0.05	<0.05	8.42	
		26 Apr 2021	**0937_QC102_20210426**	**Field_D**	**EM2107858**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.46	<0.05	<0.05	9.75	
			0937_ SW256_20210426	**Normal**	**EM2107858**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.49	<0.05	<0.05	9.08	
			QC202_20210426	**Interlab_D**	**792537**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.63	<0.01	<0.01	8.9	6.16
		14 Jul 2021	**0937_QC115_210714**	**Field_D**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.18	
			0937_QC215_210714	**Interlab_D**	**811260**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.08	<0.01	<0.01	5.84	4.38
			0937_SW256_210714	**Normal**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	4.32	
		12 Nov 2021	**0937_SW256_211112**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	1.71	
		17 Feb 2022	**0937_SW256_220217**	**Normal**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	10	
		26 May 2022	**0937_SW256_220526**	**Normal**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.43	
		24 Aug 2022	**0937_SW256_220824**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	2.45	
		29 Nov 2022	**0937_SW256_221128**	**Normal**	**EM2223972**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	6.42	
		23 Nov 2023	**0937_SW256_231123**	**Normal**	**EM2320952**	<0.04	<0.10	<0.04		<0.10	<0.10	<0.10	<0.10	<0.04	<0.04	<0.05	0.08	<0.05	<0.05	15.2	
SW257	**On-Site**	**13 Oct 2016**	**SW257**	**Normal**	**EM1612198**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.6	
		22 Nov 2019	**0937_SW257_191122**	**Normal**	**EM1920039**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.78	<0.05	<0.05	10.3	
		17 Jun 2020	**0937_SW257_20200617**	**Normal**	**EM2010514**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.08	<0.05	<0.05	7.29	
		23 Jun 2020	**0937_SW257_200623**	**Normal**	**EM2010697**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.62	<0.05	<0.05	5.16	
		11 Nov 2020	**0937_SW257_201111**	**Normal**	**EM2020050**	<0.02	<0.05	0.07		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.01	<0.05	<0.05	12.4	
		28 Jan 2021	**0937_QC209_210128**	**Interlab_D**	**770470**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.40	<0.01	<0.01	5.13	3.48
		29 Jan 2021	**0937_QC109_210129**	**Field_D**	**EM2101229**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.43	<0.05	<0.05	5.09	
			0937_SW257_210129	**Normal**	**EM2101229**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	3.02	<0.05	<0.05	7.87	
		28 Apr 2021	**0937_ SW257_202105**	**Normal**	**EM2107858**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.26	<0.05	<0.05	8.62	
		15 Jul 2021	**0937_SW257_210715**	**Normal**	**EM2113872-AB**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.34	<0.05	<0.05	5.07	
		12 Nov 2021	**0937_SW257_211112**	**Normal**	**EM2123080**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.11	<0.05	<0.05	1.89	
		18 Feb 2022	**0937_QC111_220218**	**Field_D**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.75	<0.05	<0.05	21.8	
			0937_QC211_220218	**Interlab_D**	**864735**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.49	<0.01	<0.01	22.6	17.71
			0937_SW257_220218	**Normal**	**EM2202703**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.6	<0.05	<0.05	17.6	
		25 May 2022	**0937_QC112_220525**	**Field_D**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.32	<0.05	<0.05	16.6	
			0937_QC212_220525	**Interlab_D**	**893740**	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.39	<0.01	<0.01	16.95	12.64
		26 May 2022	**0937_SW257_220525**	**Normal**	**EM2210316**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.35	<0.05	<0.05	19.6	
		23 Aug 2022	**0937_SW257_220823**	**Normal**	**EM2216476**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.83	
		23 Nov 2022	**0937_SW257_221123**	**Normal**	**EM2223510**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.12	
		20 Nov 2023	**0937_SW257_231120**	**Normal**	**EM2320952**	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	14.8	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW258	On-Site	13 Oct 2016	SW258	Normal	EM1612198	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	14	
		22 Nov 2019	0937_SW258_191122	Normal	EM1920039	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.25	<0.05	<0.05	9.83	
		20 Mar 2020	0937_SW258_20200318	Normal	EM2004711	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.82	<0.05	<0.05	9.15	
		15 Jun 2020	0937_SW258_20200615	Normal	EM2010514	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.29	<0.05	<0.05	5.55	
		09 Nov 2020	0937_SW258_201109	Normal	EM2020050	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.75	<0.05	<0.05	4.97	
		29 Jan 2021	0937_SW258_210129	Normal	EM2101229	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.21	<0.05	<0.05	4.06	
		20 Apr 2021	0937_ SW258 _20210420	Normal	EM2107085	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.34	<0.05	<0.05	5.35	
		05 Aug 2021	0937_SW258_210805	Normal	EM2115476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	4.09	
		16 Nov 2021	0937_QC115_211116	Field_D	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	5.10	
			0937_QC215_211116	Interlab_D	842318	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.11	<0.01	<0.01	6.77	5.39
			0937_SW258_211116	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.07	<0.05	<0.05	4.81	
		21 Feb 2022	0937_SW258_220221	Normal	EM2203247	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.5	<0.05	<0.05	16.2	
		30 May 2022	0937_SW258_220530	Normal	EM2210316	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.20	<0.05	<0.05	17.4	
		02 Sep 2022	0937_SW258_220902	Normal	EM2217000	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.36	<0.05	<0.05	12.3	
		23 Nov 2022	0937_SW258_221123	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	3.47	
		16 Nov 2023	0937_QC114_231116	Field_D	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.10	<0.05	<0.05	10.8	
			0937_QC214_231116	Interlab_D	1048259	<0.01	<0.01	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.07	<0.01	<0.01	10.95	8.25
			0937_SW258_231116	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	0.09	<0.05	<0.05	10.7	
SW277	Off-Site	26 Oct 2016	OSW010	Normal	EM1612993	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.583	
			QCA405	Field_D	EM1612868	<0.002	<0.005	<0.002		<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	0.507	
			QCB406	Interlab_D	521935	<0.01	<0.01	<0.05		<0.05		<0.05				<0.01	<0.05	<0.01			
		04 Dec 2019	0937_SW010_191204	Normal	EM1920784	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.81	
		19 Mar 2020	0937_SW277_20200319	Normal	EM2004706	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.07	
		18 Jun 2020	0937_SW277_200618	Normal	EM2010381	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.85	
		12 Nov 2020	0937_SW277_201112	Normal	EM2020047	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.42	
		02 Feb 2021	0937_SW277_210202	Normal	EM2101562	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.54	
		29 Apr 2021	0937_SW277_20210429	Normal	EM2107855	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.87	
		04 Aug 2021	0937_SW277_210804	Normal	EM2115483	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.32	
		10 Nov 2021	0937_SW277_211110	Normal	EM2123004	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.15	
		22 Feb 2022	0937_SW277_220222	Normal	EM2203194	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.69	
		27 May 2022	0937_SW277_220527	Normal	EM2210252	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.69	
		31 Aug 2022	0937_SW277_220831	Normal	EM2216996	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	1.65	
		21 Nov 2023	0937_SW277_231121	Normal	EM2320910	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	0.31	

Table B2: Surface Water Analytical Results

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW351	On-Site	11 May 2021	0937_SW351_210511	Normal	EM2109423	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.57	
		23 Aug 2021	0937_QC161_210823	Field_D	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	
			0937_QC261_210823	Interlab_D	27823	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	
			0937_SW351_210823_1215	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	
			0937_SW351_210823_1315	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	
			0937_SW351_210823_1415	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.33	
			0937_SW351_210823_1615	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.29	
		24 Aug 2021	0937_SW351_210824_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21	
			0937_SW351_210824_1605	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.06	
		25 Aug 2021	0937_SW351_210825_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.78	
		26 Aug 2021	0937_SW351_210826_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56	
		03 Sep 2021	0937_QC166_210903	Field_D	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.04	
			0937_QC263_210903	Interlab_D	27823	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND	2.1	
			0937_SW351_210903_2015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.87	
			0937_SW351_210903_2115	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.72	
			0937_SW351_210903_2215	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.91	
		04 Sep 2021	0937_SW351_210904_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.79	
			0937_SW351_210904_0815	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51	
		05 Sep 2021	0937_SW351_210905_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	1.82	
		06 Sep 2021	0937_SW351_210906_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	2.13	
		07 Sep 2021	0937_SW351_210907_0015	Normal	EM2118293	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.29	
		30 Sep 2021	0937_QC168_21930	Field_D	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.67	
			0937_QC267_21930	Interlab_D	28330	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.24	ND	ND	9.4	
			0937_SW351_210930_0913	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.19	ND	ND	6.72	
			0937_SW351_210930_0957	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	7.80	
			0937_SW351_210930_1046	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	7.40	
			0937_SW351_210930_1542	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.21	ND	ND	8.07	
			0937_SW351_210930_2341	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.08	ND	ND	2.80	
		01 Oct 2021	0937_SW351_211001_2342	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.83	
		03 Oct 2021	0937_SW351_211003_2343	Normal	EM2120760	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.10	ND	ND	5.65	
		12 Nov 2021	0937_SW351_211112_1130	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60	
			0937_SW351_211112_1330	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.71	
			0937_SW351_211112_1630	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.58	
			0937_SW351_211112_2230	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	
			0937_SW351_211113_0430	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	
		13 Nov 2021	0937_SW351_211113_1030	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.60	
			0937_SW351_211113_2230	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.23	
		14 Nov 2021	0937_SW351_211114_1030	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.25	
		15 Nov 2021	0937_SW351_211115_1045	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.48	
		16 Nov 2021	0937_SW351_211116_1045	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.26	
			0937_SW351_211116_1400	Normal	EM2123590	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	

						Perfluorocarbons															
						Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	Perfluoro-n-hexadecanoic acid	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FS)	8:2 Fluorotelomer sulfonate (8:2 FS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
						µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L
LOR						0.002	0.005	0.002	0.005	0.005	0.005	0.005	0.005	0.002	0.002	0.005	0.005	0.005	0.005	0.002	0.01
PFAS NEMP 2.0 Table 1 Health Drinking Water																					
PFAS NEMP 2.0 Table 1 Health Recreational Water																					
PFAS NEMP 2.0 Table 5 Freshwater 99%																					
Location Code	**Location Type**	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																
SW351	On-Site	01 Apr 2022	0937_SW351_220401_1345	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.97	ND	ND	2.10	
			0937_SW351_220401_1445	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND	2.52	
			0937_SW351_220401_1645	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	1.18	ND	ND	2.65	
		04 Apr 2022	0937_QC1108_20220404	Field_D	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	1.42	
			0937_SW351_220404_1715	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	1.90	
			0937_SW351_220404_1815	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	1.63	
			0937_SW351_220404_2015	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	1.57	
			0937_SW351_220404_2330	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	1.45	
		05 Apr 2022	0937_QC1109_20220405	Field_D	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	1.55	
			0937_SW351_220405_0530	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.23	ND	ND	1.44	
			0937_SW351_220405_1130	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.30	ND	ND	1.51	
			0937_SW351_220405_1730	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.34	ND	ND	1.69	
		06 Apr 2022	0937_QC1110_20220406	Field_D	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.42	ND	ND	1.86	
			0937_QC2108_20220404	Interlab_D	31187	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	1.7	
			0937_QC2109_20220405	Interlab_D	31187	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.34	ND	ND	1.8	
			0937_SW351_220406_0530	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.43	ND	ND	1.82	
			0937_SW351_220406_1730	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.44	ND	ND	1.91	
		07 Apr 2022	0937_QC1111_20220407	Field_D	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.55	ND	ND	2.17	
			0937_QC2110_20220406	Interlab_D	31187	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.48	ND	ND	2.1	
			0937_QC2111_20220407	Interlab_D	31187	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.63	ND	ND	2.6	
			0937_SW351_220407_1730	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.52	ND	ND	2.17	
		08 Apr 2022	0937_SW351_220408_1730	Normal	EM2207373	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.60	ND	ND	2.29	
		22 Aug 2022	0937_SW351_220822_1600	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.47	ND	ND	2.39	
		23 Aug 2022	0937_SW351_220823_0215	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.36	ND	ND	1.78	
			0937_SW351_220823_0330	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.33	ND	ND	1.86	
			0937_SW351_220823_0400	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	1.82	
			0937_SW351_220823_0500	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.20	ND	ND	1.66	
			0937_SW351_220823_0715	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	1.87	
			0937_SW351_220823_1015	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	1.76	
			0937_SW351_220823_1615	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	1.43	
			0937_SW351_220823_2215	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	1.40	
		24 Aug 2022	0937_SW351_220824_0415	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.12	ND	ND	1.39	
			0937_SW351_220824_1615	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	1.57	
		25 Aug 2022	0937_SW351_220825_0415	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	1.48	
			0937_SW351_220825_1650	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	1.43	
		26 Aug 2022	0937_SW351_220826_0415	Normal	EM2216498	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	1.48	
		27 Aug 2022	0937_SW351_220827_0300	Normal	EM2217017	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	1.57	
		15 Nov 2023	0937_SW351_231115	Normal	EM2320952	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	1.70	<0.05	<0.05	4.01	
SW353		13 Jul 2021	0937_SW353_210713	Normal	EM2113872-AB	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	5.99	
		15 Nov 2021	0937_SW353_211115	Normal	EM2123080	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	16.6	
		23 Aug 2022	0937_SW353_220823	Normal	EM2216476	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	12.1	
		24 Nov 2022	0937_SW353_221124	Normal	EM2223510	<0.02	<0.05	<0.02		<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.05	<0.05	19.0	

Notes

Denotes first-time detection above LOR in latest monitoring round

Denotes new exceedance of human health drinking water screening criteria in latest monitoring round

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD001	01 Jun 2016	OSD001	Normal	EM1606490	0.0453	<0.0002	0.0476	<0.0002	<0.0002	0.0023	0.0003	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Oct 2016	OSD001	Normal	EM1612997	0.123	0.001	0.1308	<0.0002	<0.0002	0.0078	0.0014	0.0002	<0.001	<0.0002	0.0017	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Dec 2019	0937_SD001_191203	Normal	EM1920790	0.113	0.0002	0.115	<0.0002	<0.0002	0.0018	0.0009	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD001_20200320	Normal	EM2004707	0.0643	0.0005	0.0653	<0.0002	<0.0002	0.0010	0.0007	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD001_20200623	Normal	EM2010693	0.0218	<0.0002	0.0226	<0.0002	<0.0002	0.0008	0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD001_201113	Normal	EM2020041	0.0667	<0.0005	0.0689	<0.0005	<0.0005	0.0022	<0.0005	<0.0005	<0.001	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	04 Feb 2021	0937_SD001_210204	Normal	EM2101558	0.108	<0.0002	0.109	<0.0002	<0.0002	0.0009	0.0003	0.0006	<0.001	0.0003	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD001_20210429	Normal	EM2107856	0.0525	<0.0002	0.0540	<0.0002	<0.0002	0.0015	0.0002	0.0005	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD001_210806	Normal	EM2115478	0.0477	<0.0004	0.0487	<0.0004	<0.0004	0.0010	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	24 Feb 2022	0937_SD001_220224	Normal	EM2203197	0.0749	<0.0004	0.0786	<0.0004	<0.0004	0.0037	0.0005	<0.0004	<0.002	<0.0004	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_SD001_220529	Normal	EM2210255	0.0582	<0.0004	0.0608	<0.0004	<0.0004	0.0026	<0.0004	<0.0004	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
		0937_QC215_220529	Interlab_D	893740	0.081	<0.005	0.081	<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
	31 May 2022	0937_QC115_220529	Field_D	EM2210255	0.0676	0.0003	0.0715	<0.0002	<0.0002	0.0039	0.0008	0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_SD001_220901	Normal	EM2216994-AD	0.0598	0.0002	0.0624	<0.0002	<0.0002	0.0026	0.0007	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD001_231121	Normal	EM2320912	0.0131	<0.0002	0.0140	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD011	26 Oct 2016	OSD011	Normal	EM1612993	0.0364	<0.0002	0.0392	<0.0002	<0.0002	0.0028	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Mar 2020	0937_SD011_20200325	Normal	EM2005034	0.0112	<0.0002	0.0125	<0.0002	<0.0002	0.0013	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD011_20200622	Normal	EM2010690	0.0241	<0.0002	0.0256	<0.0002	<0.0002	0.0015	0.0004	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD011_201113	Normal	EM2020047	0.0678	<0.0002	0.0707	<0.0002	<0.0002	0.0029	0.0006	0.0003	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD011_210202	Normal	EM2101562	0.0078	<0.0002	0.0084	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD011_20210430	Normal	EM2107855	0.0461	<0.0002	0.0479	<0.0002	<0.0002	0.0018	0.0003	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD011_210806	Normal	EM2115483	0.0262	<0.0004	0.0285	<0.0004	<0.0004	0.0023	<0.0004	<0.0004	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	10 Nov 2021	0937_SD011_211110	Normal	EM2123004	0.0351	<0.0002	0.0363	<0.0002	<0.0002	0.0012	0.0003	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD011_220223	Normal	EM2203194	0.0205	<0.0004	0.0225	<0.0004	<0.0004	0.0020	<0.0004	<0.0004	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	0937_SD011_220527	Normal	EM2210252	0.0088	<0.0002	0.0096	<0.0002	<0.0002	0.0008	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	0937_SD011_231122	Normal	EM2320910	0.0150	0.0003	0.0187	<0.0002	0.0003	0.0037	0.0008	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD014	26 Oct 2016	OSD014	Normal	EM1612993	0.0081	<0.0002	0.009	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Mar 2020	0937_SD014_20200325	Normal	EM2005034	0.0599	<0.0002	0.0624	<0.0002	<0.0002	0.0025	0.0006	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD014_20200623	Normal	EM2010690	0.0546	0.0003	0.0591	<0.0002	<0.0002	0.0045	0.0012	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD014_201113	Normal	EM2020047	0.0156	<0.0002	0.0166	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD014_210202	Normal	EM2101562	0.0028	<0.0002	0.0028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD014_20210430	Normal	EM2107855	0.0066	<0.0002	0.0076	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD014_210806	Normal	EM2115483	0.0716	0.0009	0.0880	<0.0002	0.0008	0.0164	0.0017	<0.0002	<0.001	0.0003	0.0024	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2021	0937_SD014_211110	Normal	EM2123004	0.0140	<0.0002	0.0154	<0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD014_220223	Normal	EM2203194	0.0132	<0.0003	0.0143	<0.0003	<0.0003	0.0011	<0.0003	<0.0003	<0.002	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	27 May 2022	0937_SD014_220527	Normal	EM2210252	0.0150	0.0003	0.0178	<0.0002	<0.0002	0.0028	0.0004	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	0937_SD014_231122	Normal	EM2320910	0.0596	0.0004	0.0639	<0.0002	<0.0002	0.0043	0.0008	<0.0002	<0.001	<0.0002	0.0006	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD015	26 Oct 2016	OSD015	Normal	EM1612993	0.016	0.0002	0.0203	<0.0002	<0.0002	0.0043	<0.0002	0.0002	<0.001	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Mar 2020	0937_SD015_20200325	Normal	EM2005034	0.0059	<0.0002	0.0085	<0.0002	<0.0002	0.0026	<0.0002	<0.0002	<0.001	0.0003	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD015_20200623	Normal	EM2010690	0.0035	<0.0002	0.0049	<0.0002	<0.0002	0.0014	0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD015_201113	Normal	EM2020047	0.0114	<0.0002	0.0137	<0.0002	<0.0002	0.0023	0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD015_210203	Normal	EM2101562	0.0066	<0.0002	0.0076	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD015_20210430	Normal	EM2107855	0.0058	0.0004	0.0110	<0.0002	<0.0002	0.0052	0.0005	<0.0002	<0.001	<0.0002	0.0016	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD015_220223	Normal	EM2203194	0.0085	<0.0004	0.0123	<0.0004	<0.0004	0.0038	<0.0004	<0.0004	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	0937_SD015_220527	Normal	EM2210252	0.0034	<0.0002	0.0048	<0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	0937_SD015_231122	Normal	EM2320910	0.0066	0.0002	0.0098	0.0002	0.0005	0.0032	0.0005	<0.0002	<0.001	0.0004	0.0023	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD016	26 Oct 2016	OSD016	Normal	EM1612993	0.0299	0.0003	0.0347	<0.0002	<0.0002	0.0048	<0.0002	<0.0002	<0.001	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QCA407	Field_D	EM1612868	0.019	0.0004	0.0221	<0.0002	<0.0002	0.0031	0.0006	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
		QCB408	Interlab_D	521935	0.054	<0.005	0.054	<0.005	-	<0.005	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	25 Mar 2020	0937_SD016_20200325	Normal	EM2005034	0.618	0.0008	0.630	<0.0002	0.0010	0.0118	0.0028	0.0065	<0.001	0.0017	0.0054	0.0007	0.0007	0.0016	0.0006	<0.0002	<0.0002
	22 Jun 2020	0937_SD016_20200622	Normal	EM2010690	0.0502	<0.0002	0.0535	0.0003	<0.0002	0.0033	0.0008	<0.0002	<0.001	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD016_201113	Normal	EM2020047	0.0277	<0.0004	0.0300	<0.0004	<0.0004	0.0023	<0.0004	<0.0004	<0.001	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	02 Feb 2021	0937_SD016_210202	Normal	EM2101562	0.0405	<0.0002	0.0427	<0.0002	<0.0002	0.0022	0.0007	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD016_20210430	Normal	EM2107855	0.0667	0.0003	0.0725	<0.0002	<0.0002	0.0058	0.0013	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2023	0937_SD016_231122	Normal	EM2320910	0.0920	0.0004	0.0976	0.0004	0.0005	0.0056	0.0022	0.0002	<0.001	0.0003	0.0016	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD019	28 Oct 2016	OSD019	Normal	EM1612987	0.0469	0.0003	0.0497	<0.0002	<0.0002	0.0028	<0.0002	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Dec 2016	OSD019	Normal	EM1614830	0.0059	<0.0002	0.0065	<0.0002	<0.0002	0.0006	0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Mar 2020	0937_SD019_20200316	Normal	EM2004774	0.0037	<0.0002	0.0040	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Jun 2020	0937_SD019_200618	Normal	EM2010385	0.0062	<0.0002	0.0083	<0.0002	<0.0002	0.0021	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD019_201112	Normal	EM2020045	0.0017	<0.0002	0.0017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Feb 2021	0937_SD019_210203	Normal	EM2101568	0.0056	<0.0002	0.0056	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Apr 2021	0937_SD019_20210421	Normal	EM2107090	0.0136	<0.0002	0.0139	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Aug 2021	0937_SD019_210804	Normal	EM2115485	0.0086	<0.0002	0.0089	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD019_211111	Normal	EM2123008	0.0084	<0.0002	0.0087	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD019_220222	Normal	EM2203193	0.0080	<0.0004	0.0080	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_SD019_220529	Normal	EM2210260	0.0020	<0.0002	0.0020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Aug 2022	0937_SD019_220830	Normal	EM2216989	0.0139	<0.0002	0.0143	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD019_221130	Normal	EM2223922	0.0081	<0.0002	0.0081	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD019_231121	Normal	EM2320917	0.0009	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD030	26 Oct 2016	OSD030	Normal	EM1612981	0.0789	0.002	0.0918	0.0003	0.0004	0.0129	0.0024	<0.0002	<0.001	0.0014	0.0031	0.001	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Dec 2019	0937_SD030_191204	Normal	EM1920788	0.0443	<0.0002	0.0461	<0.0002	<0.0002	0.0018	0.0004	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD030_20200319	Normal	EM2004716	0.335	0.0013	0.343	<0.0002	<0.0002	0.0083	0.0033	0.0013	0.002	<0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Jun 2020	0937_SD030_200619	Normal	EM2010383	0.0194	<0.0002	0.0200	<0.0002	<0.0002	0.0006	<0.0002	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC110_200619	Field_D	EM2010383	0.0149	<0.0002	0.0154	<0.0002	<0.0002	0.0005	<0.0002	0.0006	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC210_200619	Interlab_D	726765	0.021	<0.005	0.021	<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
	12 Nov 2020	0937_SD030_201112	Normal	EM2020042	0.206	0.0006	0.220	<0.0002	0.0003	0.0140	0.0018	0.0013	<0.001	<0.0002	0.0013	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD030_210202	Normal	EM2101566	0.224	0.0008	0.229	<0.0002	0.0002	0.0051	0.0016	0.0007	<0.001	0.0003	0.0015	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD030_20210428	Normal	EM2107807	0.0344	<0.0002	0.0352	<0.0002	<0.0002	0.0008	0.0006	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD030_210805	Normal	EM2115482	0.870	0.0024	0.955	0.0006	0.0036	0.0846	0.0076	<0.0004	<0.002	<0.0004	0.0030	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD030_211111	Normal	EM2123005	0.0947	0.0004	0.0988	<0.0002	<0.0002	0.0041	0.0015	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD030_220223	Normal	EM2203198	0.154	0.0006	0.161	<0.0002	0.0003	0.0066	0.0023	0.0006	<0.001	<0.0002	0.0016	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 May 2022	0937_SD030_220529	Normal	EM2210257	0.0657	<0.0002	0.0669	<0.0002	<0.0002	0.0012	0.0005	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD030_220902	Normal	EM2216993	0.128	0.0008	0.148	0.0002	0.0007	0.0199	0.0022	0.0002	<0.001	0.0002	0.0012	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD030_221130	Normal	EM2223928	0.203	0.0012	0.232	<0.0002	0.0006	0.0291	0.0038	0.0009	<0.001	<0.0002	0.0017	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD031	26 Oct 2016	OSD031	Normal	EM1612982	0.021	0.0004	0.0247	0.0003	<0.0002	0.0037	0.0008	<0.0002	<0.001	<0.0002	0.0004	0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	28 Nov 2019	0937_SD031_191128	Normal	EM1920529	0.0008	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD031_20200320	Normal	EM2004718	0.0021	<0.0002	0.0023	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD031_200623	Normal	EM2010696	0.0013	<0.0002	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC111_200623	Field_D	EM2010696	0.0008	<0.0002	0.0011	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		O973_QC211_200623	Interlab_D	727519	<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
	13 Nov 2020	0937_SD031_201113	Normal	EM2020044	0.0009	<0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD031_210202	Normal	EM2101565	0.0059	<0.0002	0.0083	<0.0002	<0.0002	0.0024	<0.0002	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD031_20210429	Normal	EM2107809	0.0096	<0.0002	0.0110	<0.0002	<0.0002	0.0014	0.0002	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD031_231123	Normal	EM2320915	0.0014	<0.0002	0.0027	<0.0002	<0.0002	0.0013	<0.0002	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD032	26 Oct 2016	OSD032	Normal	EM1612982	0.019	0.0002	0.0207	<0.0002	<0.0002	0.0017	0.0004	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Nov 2019	0937_SD032_191128	Normal	EM1920529	0.0099	<0.0002	0.0114	<0.0002	<0.0002	0.0015	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD032_20200320	Normal	EM2004718	0.0288	0.0005	0.0374	0.0003	0.0005	0.0086	0.0008	0.0004	<0.001	0.0003	0.0019	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD032_200623	Normal	EM2010696	0.0272	0.0004	0.0366	0.0002	0.0005	0.0094	0.0009	<0.0002	<0.001	<0.0002	0.0009	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD032_201113	Normal	EM2020044	0.0109	<0.0002	0.0111	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD032_210202	Normal	EM2101565	0.0170	<0.0002	0.0180	<0.0002	<0.0002	0.0010	0.0004	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 May 2021	0937_SD032_20210504	Normal	EM2108092	0.0030	<0.0002	0.0036	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD032_210806	Normal	EM2115477	0.0226	<0.0004	0.0275	0.0005	0.0010	0.0049	<0.0004	<0.0004	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	18 Nov 2021	0937_SD032_211118	Normal	EM2123007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD032_220224	Normal	EM2203200	0.0156	<0.0004	0.0165	<0.0004	<0.0004	0.0009	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	0937_SD032_220531	Normal	EM2210258	0.0111	<0.0002	0.0119	<0.0002	<0.0002	0.0008	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_SD032_220901	Normal	EM2216991	0.154	0.0016	0.173	<0.0002	0.0003	0.0191	0.0058	<0.0002	<0.001	<0.0002	0.0008	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD032_221130	Normal	EM2223921	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD032_231123	Normal	EM2320915	0.0035	<0.0002	0.0040	<0.0002	<0.0002	0.0005	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD033	27 Oct 2016	OSD033	Normal	EM1613005	0.0387	0.0004	0.0421	<0.0002	<0.0002	0.0034	0.0008	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Dec 2019	0937_SD033_191203	Normal	EM1920790	0.0034	<0.0002	0.0047	<0.0002	<0.0002	0.0013	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD033_20200319	Normal	EM2004707	0.0214	<0.0002	0.0228	<0.0002	<0.0002	0.0014	<0.0002	0.0004	<0.001	0.0004	0.0004	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC103_20200319	Field_D	EM2004707	0.0242	<0.0002	0.0256	<0.0002	<0.0002	0.0014	<0.0002	0.0004	<0.001	0.0002	0.0003	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC203_20200319	Interlab_D	711148	0.063	<0.005	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	<0.005	<0.005
	19 Jun 2020	0937_SD033_20200619	Normal	EM2010382	0.0781	<0.0002	0.0811	<0.0002	0.0002	0.0030	0.0004	0.0027	<0.001	0.0005	0.0007	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC108_20200619	Field_D	EM2010382	0.0838	0.0003	0.0878	<0.0002	0.0002	0.0040	0.0003	0.0034	<0.001	0.0008	0.0010	0.0004	<0.0002	<0.0002	0.0002	<0.0002	<0.0002
		0937_QC208_200619	Interlab_D	726765	0.045	<0.005	0.045	<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
	12 Nov 2020	0937_SD033_201112	Normal	EM2020041	0.0717	<0.0004	0.0740	<0.0004	<0.0004	0.0023	<0.0004	0.0011	<0.001	0.0007	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	04 Feb 2021	0937_SD033_210204	Normal	EM2101558	0.0516	<0.0002	0.0538	<0.0002	<0.0002	0.0022	0.0003	0.0015	<0.001	0.0004	0.0005	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD033_29210429	Normal	EM2107858	0.0394	<0.0002	0.0422	<0.0002	<0.0002	0.0028	0.0003	0.0010	<0.001	0.0008	0.0007	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD033_210805	Normal	EM2115478	0.0201	<0.0002	0.0219	<0.0002	<0.0002	0.0018	<0.0002	0.0005	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD033_211111	Normal	EM2123001	0.0102	<0.0002	0.0120	<0.0002	<0.0002	0.0018	<0.0002	0.0003	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC106_211111	Field_D	EM2123001	0.0365	<0.0002	0.0391	<0.0002	<0.0002	0.0026	0.0003	0.0007	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC206_211111	Interlab_D	847843	0.021	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	23 Feb 2022	0937_SD033_220223	Normal	EM2203197	0.0909	0.0004	0.0993	0.0006	0.0006	0.0084	0.0009	0.0022	<0.002	0.0005	0.0009	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	31 May 2022	0937_SD033_220528	Normal	EM2210255	0.0232	<0.0002	0.0262	<0.0002	<0.0002	0.0030	0.0004	0.0003	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_SD033_220901	Normal	EM2216994-AD	0.0385	0.0002	0.0422	<0.0002	0.0003	0.0037	0.0004	0.0007	<0.001	0.0004	0.0005	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC118_220901	Field_D	EM2216994-AD	0.0402	<0.0002	0.0430	<0.0002	<0.0002	0.0028	0.0003	0.0005	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC218_220831	Interlab_D	922406	0.062	<0.005	0.0679	<0.005	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	21 Nov 2023	0937_SD033_231121	Normal	EM2320912	0.0379	<0.0002	0.0415	0.0003	0.0003	0.0036	0.0005	0.0005	<0.001	0.0003	0.0006	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD034	26 Oct 2016	OSD034	Normal	EM1612997	0.135	0.0008	0.143	<0.0002	<0.0002	0.008	0.0015	<0.0002	<0.001	<0.0002	0.002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QCA415	Field_D	EM1612868	0.0936	0.0013	0.102	0.0003	0.0003	0.0084	0.0019	<0.0002	<0.001	0.0003	0.0009	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QCB416	Interlab_D	521935	0.23	<0.005	0.24	<0.005	-	0.01	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	28 Nov 2019	0937_SD034_191128	Normal	EM1920529-AC	0.422	0.0006	0.427	0.0002	<0.0002	0.0047	0.0023	<0.0002	<0.001	0.0004	0.0033	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD034_20200320	Normal	EM2004707	0.104	<0.0005	0.110	<0.0005	<0.0005	0.0056	0.0009	0.0007	<0.001	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	18 Jun 2020	0937_SD034_20200618	Normal	EM2010382	0.878	0.0023	0.896	<0.0002	0.0010	0.0180	0.0102	0.0105	0.006	0.0007	0.0069	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD034_201113	Normal	EM2020041	0.877	0.0008	0.882	<0.0003	0.0004	0.0053	0.0030	0.0009	<0.001	<0.0003	0.0010	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	02 Feb 2021	0937_SD034_210202	Normal	EM2101558	0.693	0.0016	0.699	<0.0004	<0.0004	0.0059	0.0036	0.0046	<0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 Apr 2021	0937_SD034_20210429	Normal	EM2107856	0.298	0.0006	0.305	<0.0002	0.0003	0.0073	0.0029	<0.0002	<0.001	0.0003	0.0021	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD034_210806	Normal	EM2115478	0.0285	<0.0004	0.0291	<0.0004	<0.0004	0.0006	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	17 Nov 2021	0937_SD034_211117	Normal	EM2123001	0.748	0.0012	0.757	0.0002	0.0005	0.0088	0.0037	0.0038	<0.001	0.0004	0.0032	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD034_220224	Normal	EM2203197	0.35	<0.0004	0.353	<0.0004	<0.0004	0.0027	0.0011	0.0026	<0.002	<0.0004	0.0006	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	0937_SD034_220534	Normal	EM2210255	0.337	0.0005	0.341	<0.0004	<0.0004	0.0039	0.0014	0.0012	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	01 Sep 2022	0937_SD034_220901	Normal	EM2216994-AD	0.0803	0.0002	0.0829	<0.0002	<0.0002	0.0026	0.0004	0.0004	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD034_231121	Normal	EM2320912	0.0212	0.0004	0.0245	<0.0002	<0.0002	0.0033	0.0005	<0.0002	<0.001	<0.0002	0.0013	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD035	26 Oct 2016	OSD035	Normal	EM1612997	0.0534	<0.0002	0.0569	<0.0002	<0.0002	0.0035	0.0005	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Mar 2020	0937_SD035_20200326	Normal	EM2005031	0.0342	<0.0002	0.0355	<0.0002	<0.0002	0.0013	0.0003	0.0005	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD035_20200623	Normal	EM2010693	0.0377	0.0002	0.0400	<0.0002	<0.0002	0.0023	0.0008	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD035_201113	Normal	EM2020041	0.0709	<0.0004	0.0740	<0.0004	<0.0004	0.0031	0.0005	<0.0004	<0.001	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	04 Feb 2021	0937_SD035_210204	Normal	EM2101558	0.150	0.0003	0.151	<0.0002	<0.0002	0.0014	0.0008	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD035_20210429	Normal	EM2107856	0.0824	0.0003	0.0862	<0.0002	<0.0002	0.0038	0.0009	<0.0002	<0.001	<0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD035_220224	Normal	EM2203197	0.0672	0.0005	0.0719	<0.0004	<0.0004	0.0047	0.0008	<0.0004	<0.002	<0.0004	0.0015	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_SD035_220529	Normal	EM2210255	0.0350	0.0003	0.0376	<0.0002	<0.0002	0.0026	0.0006	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC216_220529	Interlab_D	893740	0.093	<0.005	0.093	<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
	31 May 2022	0937_QC116_220529	Field_D	EM2210255	0.0651	0.0008	0.0725	0.0002	0.0003	0.0074	0.0016	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD035_231121	Normal	EM2320912	0.101	0.0004	0.105	<0.0002	<0.0002	0.0038	0.0012	<0.0002	<0.001	<0.0002	0.0008	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD041	26 Oct 2016	OSD041	Normal	EM1612997	0.265	0.0015	0.2767	<0.0002	<0.0002	0.0117	0.0026	<0.0002	<0.001	<0.0002	0.0008	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Nov 2019	0937_SD041_191128	Normal	EM1920529-AC	0.122	<0.0002	0.124	<0.0002	<0.0002	0.0022	0.0006	0.0011	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD041_20200320	Normal	EM2004707	0.498	0.0008	0.505	0.0003	0.0004	0.0068	0.0022	0.0037	<0.001	0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Jun 2020	0937_SD041_20200618	Normal	EM2010382	0.354	0.0011	0.363	<0.0002	0.0005	0.0093	0.0030	0.0051	0.002	0.0003	0.0029	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD041_201113	Normal	EM2020041	0.0046	<0.0002	0.0071	<0.0002	<0.0002	0.0025	<0.0002	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD041_210202	Normal	EM2101558	0.0450	<0.0002	0.0460	<0.0002	<0.0002	0.0010	0.0004	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD041_20210429	Normal	EM2107856	0.215	0.0008	0.219	<0.0002	<0.0002	0.0043	0.0023	<0.0002	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD041_210806	Normal	EM2115478	0.166	0.0015	0.174	<0.0002	<0.0002	0.0075	0.0029	<0.0002	<0.001	0.0003	0.0015	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD041_211111	Normal	EM2123001	0.122	<0.0002	0.125	<0.0002	<0.0002	0.0026	0.0007	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Feb 2022	0937_SD041_220224	Normal	EM2203197	0.412	0.0005	0.418	<0.0004	<0.0004	0.0062	0.0015	<0.0004	<0.002	<0.0004	0.0015	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	28 May 2022	0937_SD041_220528	Normal	EM2210255	0.0490	0.0002	0.0502	<0.0002	<0.0002	0.0012	0.0007	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_SD041_220831	Normal	EM2216994-AD	0.128	0.0006	0.133	<0.0002	<0.0002	0.0053	0.0016	0.0005	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD041_231121	Normal	EM2320912	0.0139	0.0007	0.0269	0.0003	0.0006	0.0130	0.0007	<0.0002	<0.001	0.0004	0.0026	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD049	27 Oct 2016	OSD049	Normal	EM1613003	0.0037	<0.0002	0.0041	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	03 Dec 2019	0937_SD049_191203	Normal	EM1920780	0.0015	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD049_	Normal	EM2004719	0.0018	<0.0002	0.0018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Jun 2020	0937_SD049_20200618	Normal	EM2010386	0.0061	<0.0002	0.0064	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD049_201112	Normal	EM2020046	0.0040	<0.0002	0.0040	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Feb 2021	0937_SD049_210201	Normal	EM2101559	0.0029	<0.0002	0.0031	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Apr 2021	0937_SD049_20210421	Normal	EM2107088	0.0037	<0.0002	0.0037	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD049_210806	Normal	EM2115480	0.0024	<0.0002	0.0036	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Nov 2021	0937_QC219_211117	Interlab_D	842318	0.021	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	18 Nov 2021	0937_SD049_211118	Normal	EM2123002	0.0184	<0.0002	0.0227	0.0002	0.0005	0.0043	0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC119_211118	Field_D	EM2123002	0.0170	<0.0002	0.0223	0.0006	0.0007	0.0053	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD049_220222	Normal	EM2203201	0.0074	<0.0004	0.0074	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	31 May 2022	0937_SD049_220531	Normal	EM2210259	0.0041	<0.0002	0.0052	<0.0002	<0.0002	0.0011	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Aug 2022	0937_SD049_220829	Normal	EM2216987	0.0177	<0.0002	0.0191	0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Dec 2022	0937_SD049_221201	Normal	EM2223923	0.0520	0.0002	0.0588	0.0009	0.0005	0.0068	0.0007	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD049_231123	Normal	EM2320918	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD052	26 Oct 2016	OSD052	Normal	EM1612985	0.0107	0.0014	0.0224	0.0004	0.0006	0.0117	0.0009	<0.0002	<0.001	0.0005	0.002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Dec 2019	0937_SD052_191204	Normal	EM1920785	2.42	0.0027	2.44	<0.0002	0.0005	0.0227	0.0099	0.0222	<0.001	0.0002	0.0019	0.0005	0.0003	0.0003	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD052_20200319	Normal	EM2004717	0.645	0.0031	0.666	<0.0002	0.0004	0.0206	0.0060	0.0051	<0.001	0.0003	0.0026	0.0008	0.0005	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD052_200623	Normal	EM2010691	0.656	0.0024	0.672	0.0002	0.0005	0.0156	0.0056	<0.0002	<0.001	0.0007	0.0029	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD052_201112	Normal	EM2020043	0.328	0.0028	0.386	<0.0002	0.0009	0.0585	0.0043	0.0040	<0.001	<0.0002	0.0034	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Feb 2021	0937_SD052_210204	Normal	EM2101564	0.0952	0.0002	0.0965	<0.0002	<0.0002	0.0013	0.0003	0.0007	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD052_20210429	Normal	EM2107806	0.0560	0.0004	0.0620	<0.0002	0.0002	0.0060	0.0009	<0.0002	<0.001	<0.0002	0.0014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD052_210805	Normal	EM2115484	1.34	0.0016	1.36	<0.0002	0.0007	0.0179	0.0042	0.0227	<0.001	<0.0002	0.0010	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD052_211111	Normal	EM2123006	0.332	0.0012	0.342	<0.0002	0.0005	0.0104	0.0022	0.0060	<0.001	0.0004	0.0028	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD052_220223	Normal	EM2203199	0.269	0.0006	0.275	<0.0002	0.0003	0.0057	0.0017	0.0008	<0.001	0.0002	0.0012	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 May 2022	0937_SD052_220528	Normal	EM2210256	0.222	0.0005	0.227	<0.0002	0.0002	0.0051	0.0016	0.0028	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Sep 2022	0937_SD052_220901	Normal	EM2216992	0.775	0.0022	0.808	0.0013	0.0015	0.0328	0.0068	0.0126	<0.001	0.0014	0.0058	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2023	0937_SD052_231121	Normal	EM2320914	0.221	0.0024	0.240	0.0003	0.0007	0.0186	0.0042	0.0004	<0.001	0.0008	0.0028	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD082	25 Mar 2020	0937_SD082_20200325	Normal	EM2005034	0.0016	<0.0002	0.0034	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	<0.001	0.0004	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD082_200623	Normal	EM2010690	0.0136	<0.0002	0.0148	0.0002	<0.0002	0.0012	0.0005	<0.0002	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD082_201113	Normal	EM2020047	0.0049	<0.0002	0.0076	<0.0002	<0.0002	0.0027	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD082_210202	Normal	EM2101562	0.0134	0.0002	0.0159	<0.0002	<0.0002	0.0025	0.0002	<0.0002	<0.001	0.0005	0.0013	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD082_20210430	Normal	EM2107855	0.0014	<0.0002	0.0031	<0.0002	<0.0002	0.0017	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	06 Aug 2021	0937_SD082_210806	Normal	EM2115483	0.0159	<0.0002	0.0183	<0.0002	<0.0002	0.0024	0.0004	<0.0002	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2021	0937_SD082_211111	Normal	EM2123004	0.0013	<0.0002	0.0020	<0.0002	<0.0002	0.0007	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Feb 2022	0937_SD082_220223	Normal	EM2203194	0.0047	<0.0004	0.0054	<0.0004	<0.0004	0.0007	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	0937_SD082_220527	Normal	EM2210252	0.0008	<0.0002	0.0032	0.0002	0.0004	0.0024	<0.0002	<0.0002	<0.001	<0.0002	0.0023	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_SD082_220831	Normal	EM2216996	0.0015	<0.0002	0.0030	0.0002	0.0002	0.0015	<0.0002	<0.0002	<0.001	<0.0002	0.0011	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC114_220831	Field_D	EM2216996	0.0009	<0.0002	0.0021	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	0.0014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC214_220831	Interlab_D	922406	<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
	22 Nov 2023	0937_SD082_231122	Normal	EM2320910	<0.0002	<0.0002	0.0006	<0.0002	0.0003	0.0006	<0.0002	<0.0002	<0.001	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD088	19 Mar 2020	0937_SD088_20200319	Normal	EM2004706	0.338	<0.0005	0.343	<0.0005	<0.0005	0.0046	0.0029	0.0011	<0.001	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	18 Jun 2020	0937_SD088_20200618	Normal	EM2010381	0.490	0.0017	0.502	<0.0002	0.0007	0.0124	0.0048	<0.0002	<0.001	<0.0002	0.0026	0.0004	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD088_201112	Normal	EM2020047	0.567	0.0012	0.576	<0.0005	0.0006	0.0091	0.0038	<0.0005	<0.001	<0.0005	0.0020	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	02 Feb 2021	0937_SD088_210202	Normal	EM2101562	0.0144	0.0003	0.0164	<0.0002	<0.0002	0.0020	<0.0002	<0.0002	<0.001	<0.0002	0.0016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD088_20210429	Normal	EM2107855	0.149	0.0008	0.160	<0.0002	0.0004	0.0107	0.0030	<0.0002	<0.001	0.0002	0.0023	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD088_210805	Normal	EM2115483	0.0275	<0.0004	0.0297	<0.0004	<0.0004	0.0022	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD088_211111	Normal	EM2123004	0.432	0.0005	0.436	<0.0002	<0.0002	0.0039	0.0034	0.0015	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD088_2220222	Normal	EM2203194	0.294	<0.0004	0.297	<0.0004	<0.0004	0.0028	0.0007	0.0007	<0.002	<0.0004	0.0006	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	29 May 2022	0937_SD088_220529	Normal	EM2210252	0.0986	0.0012	0.106	<0.0002	<0.0002	0.0077	0.0026	<0.0002	<0.001	<0.0002	0.0007	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_SD088_220831	Normal	EM2216996	0.180	0.0008	0.187	<0.0002	0.0002	0.0066	0.0030	0.0003	<0.001	<0.0002	0.0009	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC115_220831	Field_D	EM2216996	0.0785	0.0004	0.0834	<0.0002	<0.0002	0.0049	0.0018	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC215_220831	Interlab_D	922406	0.13	<0.005	0.1368	<0.005	<0.005	0.0068	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	21 Nov 2023	0937_SD088_231121	Normal	EM2320910	0.0166	<0.0002	0.0174	<0.0002	<0.0002	0.0008	0.0005	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD089	25 Mar 2020	0937_SD089_20200326	Normal	EM2005034	0.0968	<0.0002	0.102	<0.0002	<0.0002	0.0050	0.0009	0.0005	<0.001	0.0003	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Jun 2020	0937_SD089_20200623	Normal	EM2010690	0.0571	<0.0002	0.0597	0.0002	<0.0002	0.0026	0.0016	<0.0002	<0.001	0.0003	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD089_201113	Normal	EM2020047	0.144	0.0003	0.153	<0.0002	0.0006	0.0086	0.0011	0.0002	<0.001	0.0008	0.0026	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD089_210202	Normal	EM2101562	0.0538	<0.0002	0.0550	<0.0002	<0.0002	0.0012	0.0004	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_SD089_20210430	Normal	EM2107855	0.321	0.0003	0.328	<0.0002	0.0002	0.0070	0.0022	<0.0002	<0.001	<0.0002	0.0017	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Aug 2021	0937_SD089_210804	Normal	EM2115483	0.103	0.0006	0.123	0.0013	0.0020	0.0197	0.0014	<0.0004	<0.002	0.0005	0.0032	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	10 Nov 2021	0937_SD089_211110	Normal	EM2123004	0.0038	<0.0002	0.0048	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD089_220222	Normal	EM2203194	0.147	<0.0003	0.148	<0.0003	<0.0003	0.0015	<0.0003	0.0010	<0.002	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	27 May 2022	0937_SD089_220527	Normal	EM2210252	0.0117	<0.0002	0.0134	<0.0002	<0.0002	0.0017	0.0003	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 Aug 2022	0937_SD089_220831	Normal	EM2216996	0.0120	<0.0002	0.0130	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC116_220831	Field_D	EM2216996	0.0072	<0.0002	0.0080	<0.0002	<0.0002	0.0008	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC216_220831	Interlab_D	922406	0.016	<0.005	0.016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	21 Nov 2023	0937_SD089_231121	Normal	EM2320910	0.0126	<0.0002	0.0156	<0.0002	<0.0002	0.0030	0.0004	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD201	13 Oct 2016	SD201	Normal	EM1612198	0.248	0.0023	0.2891	0.0044	0.0043	0.0411	0.0034	0.002	<0.001	0.0004	0.0035	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Nov 2019	0937_SD201_191126	Normal	EM1920529	0.217	0.0006	0.223	<0.0002	<0.0002	0.0064	0.0017	0.0041	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD201_20200317	Normal	EM2004711	0.248	0.0013	0.259	<0.0005	0.0005	0.0108	0.0021	0.0018	<0.001	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	16 Jun 2020	0937_SD201_200616	Normal	EM2010514	0.0273	<0.0002	0.0283	<0.0002	<0.0002	0.0010	<0.0002	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD201_201110	Normal	EM2020050	0.197	0.0010	0.209	0.0003	0.0005	0.0123	0.0023	0.0036	<0.001	0.0005	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD201_210128	Normal	EM2101229	0.525	0.0012	0.546	0.0006	0.0010	0.0206	0.0040	0.0055	<0.001	0.0009	0.0012	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC103_210128	Field_D	EM2101229	0.275	0.0010	0.291	0.0006	0.0008	0.0156	0.0042	0.0044	<0.001	<0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC203_210128	Interlab_D	770470	0.33	<0.005	0.347	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	22 Apr 2021	0937_SD201_20210422	Normal	EM2107085	0.0169	<0.0002	0.0181	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	0937_SD201_210713	Normal	EM2113872-AB	0.0558	<0.0002	0.0589	<0.0002	<0.0002	0.0031	0.0004	0.0006	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2021	0937_SD201_211109	Normal	EM2123080	0.171	0.0008	0.182	0.0004	0.0006	0.0109	0.0017	0.0016	<0.001	0.0005	0.0011	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD201_220218	Normal	EM2202703	0.182	0.0009	0.199	0.0009	0.0012	0.0167	0.0028	0.0026	<0.001	0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 May 2022	0937_SD201_2205	Normal	EM2210316	0.0491	<0.0002	0.0528	<0.0002	<0.0002	0.0037	0.0005	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD201_220823	Normal	EM2216476	0.274	0.0011	0.285	0.0006	0.0004	0.0114	0.0024	0.0032	<0.001	0.0004	0.0016	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2022	0937_SD201_221122	Normal	EM2223510	0.192	0.0008	0.202	0.0003	0.0004	0.0095	0.0016	0.0019	<0.001	0.0003	0.0012	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD201_231116	Normal	EM2320952	0.174	0.0014	0.182	0.0003	0.0005	0.0079	0.0014	0.0033	<0.001	0.0006	0.0018	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD206	13 Oct 2016	SD206	Normal	EM1612198	0.206	0.0004	0.2108	<0.0002	0.0004	0.0048	0.0015	0.0014	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD206_20200317	Normal	EM2004711	0.0267	0.0005	0.0295	0.0002	0.0004	0.0028	0.0004	0.0003	<0.001	0.0004	0.0015	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD206_20200616	Normal	EM2010514	0.0371	0.0007	0.0411	<0.0002	0.0005	0.0040	0.0005	0.0005	<0.001	0.0002	0.0025	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD206_210128	Normal	EM2101229	0.0013	<0.0002	0.0016	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_SD206_20210426	Normal	EM2107858	0.0038	<0.0002	0.0047	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	0937_SD206_210713	Normal	EM2113872-AB	0.0053	<0.0002	0.0057	<0.0002	<0.0002	0.0004	<0.0002	0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD208	14 Oct 2016	SD208	Normal	EM1612198	0.011	<0.0002	0.0138	<0.0002	0.0002	0.0028	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Nov 2019	0937_SD208_191121	Normal	EM1920039	0.0020	<0.0002	0.0023	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC100_191121	Field_D	EM1920039	0.0028	<0.0002	0.0034	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	0.0005	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC200_191121	Interlab_D	690346	0.065	<0.005	0.079	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	17 Mar 2020	0937_SD208_20200317	Normal	EM2004711	0.0158	<0.0002	0.0179	<0.0002	<0.0002	0.0021	<0.0002	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD208_200615	Normal	EM2010514	0.0777	<0.0002	0.0791	<0.0002	<0.0002	0.0014	0.0003	0.0009	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD208_201110	Normal	EM2020050	0.0113	<0.0004	0.0138	0.0006	<0.0004	0.0025	<0.0004	<0.0004	<0.001	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	28 Jan 2021	0937_SD208_210128	Normal	EM2101229	0.0030	<0.0002	0.0041	<0.0002	<0.0002	0.0011	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	0937_SD208_20210428	Normal	EM2107858	0.0031	<0.0002	0.0035	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	0937_SD208_210713	Normal	EM2113872-AB	0.0199	<0.0002	0.0220	<0.0002	<0.0002	0.0021	0.0003	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD208_211112	Normal	EM2123080	0.0403	<0.0004	0.0453	<0.0004	<0.0004	0.0050	0.0008	<0.0004	<0.002	0.0006	<0.0004	<0.0004	<0.0004	0.0007	<0.0004	<0.0004	<0.0004
	16 Feb 2022	0937_SD208_220216	Normal	EM2202703	0.0062	<0.0002	0.0068	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 May 2022	0937_SD208_220525	Normal	EM2210316	0.158	0.0025	0.202	0.0023	0.0031	0.0438	0.0060	0.0011	0.002	0.0352	0.0158	0.0070	0.0003	0.0002	0.0002	0.0002	<0.0002
		0937_QC105_220525	Field_D	EM2210316	0.230	0.0029	0.281	0.0019	0.0032	0.0511	0.0079	0.0008	0.002	0.0334	0.0177	0.0069	0.0004	0.0005	0.0003	0.0004	<0.0002
		0937_QC205_220525	Interlab_D	893740	0.21	<0.005	0.265	<0.005	<0.005	0.055	0.0056	<0.005	<0.005	0.035	0.018	0.0065	<0.005	<0.005	<0.005	<0.005	<0.005
	23 Aug 2022	0937_SD208_220823	Normal	EM2216476	0.0017	<0.0002	0.0020	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD208_221124	Normal	EM2223972	0.0053	<0.0002	0.0074	<0.0002	<0.0002	0.0021	0.0002	<0.0002	<0.001	0.0002	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD209	20 Nov 2019	0937_SD209_191120	Normal	EM1920039	21.0	0.0940	21.7	0.0200	0.0410	0.696	0.503	0.168	0.009	0.0100	0.100	0.0080	<0.0050	<0.0050	<0.0050	0.0060	<0.0050
	17 Mar 2020	0937_SD209_20200317	Normal	EM2004711	2.68	0.0262	2.81	0.0080	0.0092	0.129	0.0610	0.0823	0.004	0.0053	0.0304	0.0050	0.0005	0.0008	0.0009	0.0008	<0.0005
	16 Jun 2020	0937_SD209_200616	Normal	EM2010514	11.1	0.106	11.7	0.0717	0.0846	0.622	0.263	0.200	0.037	0.0657	0.388	0.0298	<0.0010	0.0029	<0.0010	0.0035	<0.0010
	10 Nov 2020	0937_SD209_201110	Normal	EM2020050	0.251	0.0056	0.346	0.0122	0.0130	0.0951	0.0078	0.0118	0.002	0.0062	0.0526	0.0041	<0.0002	<0.0002	<0.0002	0.0005	0.0002
	28 Jan 2021	0937_SD209_210128	Normal	EM2101229	0.708	0.0079	0.798	0.0062	0.0049	0.0895	0.0155	0.0190	0.001	0.0032	0.0175	0.0020	<0.0002	0.0003	0.0004	0.0009	0.0002
	22 Apr 2021	0937_SD209_20210422	Normal	EM2107085	0.798	0.0068	0.855	0.0033	0.0034	0.0569	0.0175	0.0337	<0.001	0.0014	0.0080	0.0009	<0.0004	0.0004	0.0004	0.0020	0.0006
	13 Jul 2021	0937_SD209_210713	Normal	EM2113872-AB	0.111	0.0007	0.119	0.0006	0.0005	0.0080	0.0014	0.0033	<0.001	0.0003	0.0018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2021	0937_SD209_211115	Normal	EM2123080	0.906	0.0162	1.03	0.0068	0.0087	0.125	0.0283	0.0405	0.003	0.0051	0.0279	0.0057	0.0002	0.0005	0.0007	0.0021	0.0005
	22 Feb 2022	0937_SD209_220222	Normal	EM2203247	1.72	0.0095	1.83	0.0086	0.0156	0.113	0.0156	0.126	<0.002	0.0037	0.0325	0.0041	0.0007	0.0023	0.0026	0.0057	0.0018
	17 Nov 2023	0937_SD209_231117	Normal	EM2320952	0.975	0.0143	1.09	0.0030	0.0062	0.116	0.0301	0.0210	<0.001	0.0024	0.0116	0.0022	0.0003	<0.0002	0.0002	0.0009	0.0003

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD216	20 Oct 2016	SD216	Normal	EM1612570	0.0217	<0.0002	0.0234	<0.0002	<0.0002	0.0017	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD216_191125	Normal	EM1920529	0.0338	<0.0002	0.0350	<0.0002	<0.0002	0.0012	0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD216_200615	Normal	EM2010514	0.0974	0.0003	0.102	0.0005	0.0006	0.0051	0.0005	0.0007	<0.001	<0.0002	0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD216_201110	Normal	EM2020050	0.0233	<0.0002	0.0256	<0.0002	<0.0002	0.0023	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC103_201110	Field_D	EM2020050	0.0240	<0.0002	0.0269	0.0003	0.0002	0.0029	0.0003	<0.0002	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC203_201110	Interlab_D	757178	0.023	<0.005	0.023	<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
	28 Jan 2021	0937_SD216_210128	Normal	EM2101229	0.146	0.0004	0.153	0.0009	0.0004	0.0072	0.0006	0.0011	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD217	14 Oct 2016	SD217	Normal	EM1612198	0.434	0.0032	0.4885	0.003	0.0033	0.0545	0.0058	0.0055	<0.001	0.001	0.0046	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD217_20200319	Normal	EM2004711	0.518	0.0028	0.553	0.0068	0.0037	0.0353	0.0039	0.0034	0.003	0.0019	0.0059	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	16 Jun 2020	0937_SD217_200616	Normal	EM2010514	0.162	0.0040	0.284	0.0122	0.0170	0.122	0.0039	0.0018	0.004	0.0022	0.0151	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD217_201110	Normal	EM2020050	1.00	0.0025	1.04	0.0027	0.0025	0.0425	0.0091	0.0077	0.003	0.0015	0.0037	0.0006	<0.0002	0.0003	0.0003	0.0005	<0.0002
	29 Jan 2021	0937_SD217_210129	Normal	EM2101229	0.628	0.0017	0.657	0.0015	0.0016	0.0294	0.0072	0.0518	0.003	0.0013	0.0030	0.0004	<0.0002	0.0002	0.0003	0.0005	<0.0002
	27 Apr 2021	0937_SD217_20210427	Normal	EM2107858	0.573	0.0020	0.619	0.0028	0.0022	0.0456	0.0072	0.0385	0.002	0.0012	0.0038	0.0004	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	15 Jul 2021	0937_SD217_210715	Normal	EM2113872-AB	0.682	0.0021	0.727	0.0017	0.0014	0.0453	0.0073	0.0338	0.002	0.0019	0.0039	0.0004	<0.0002	<0.0002	<0.0002	0.0003	<0.0002
	16 Nov 2021	0937_SD217_211116	Normal	EM2123080	0.204	0.0021	0.211	0.0006	0.0004	0.0073	0.0025	0.0015	0.003	0.0017	0.0021	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Feb 2022	0937_SD217_220215	Normal	EM2202703	0.495	0.002	0.538	0.0032	0.0026	0.043	0.0092	0.0483	0.002	0.0013	0.0041	0.0003	<0.0002	<0.0002	<0.0002	0.0003	<0.0002
	31 May 2022	0937_SD217_220530	Normal	EM2210316	0.829	0.0029	0.875	0.0018	0.0019	0.0459	0.0069	0.0177	0.002	0.0016	0.0042	0.0005	<0.0002	<0.0002	0.0003	0.0003	<0.0002
	26 Aug 2022	0937_SD217_220826	Normal	EM2216476	0.548	0.0017	0.576	0.0014	0.0014	0.0279	0.0037	0.0116	0.002	0.0014	0.0029	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Nov 2022	0937_SD217_221124	Normal	EM2223510	0.646	0.0019	0.679	0.0012	0.0013	0.0332	0.0048	0.0176	0.001	0.0009	0.0028	0.0003	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	17 Nov 2023	0937_SD217_231117	Normal	EM2320952	1.08	0.0032	1.13	0.0017	0.0025	0.0506	0.0063	0.0202	0.001	0.0014	0.0042	0.0008	0.0002	0.0003	0.0002	0.0004	<0.0002
SD223	12 Oct 2016	SD223	Normal	EM1612198	0.0166	0.0002	0.0208	<0.0002	<0.0002	0.0042	0.0005	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2019	0937_SD223_191129	Normal	EM1920529	0.0350	<0.0002	0.0384	<0.0002	0.0002	0.0034	<0.0002	<0.0002	<0.001	0.0007	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD223_20200317	Normal	EM2004711	0.0186	<0.0002	0.0209	0.0011	<0.0002	0.0023	<0.0002	<0.0002	<0.001	0.0012	0.0011	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD223_20200617	Normal	EM2010514	0.0301	<0.0002	0.0325	<0.0002	<0.0002	0.0024	<0.0002	<0.0002	<0.001	0.0005	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD223_201110	Normal	EM2020050	0.0371	<0.0005	0.0394	<0.0005	<0.0005	0.0023	<0.0005	<0.0005	0.003	0.0010	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		0937_QC106_201110	Field_D	EM2020050	0.0609	<0.0005	0.0642	<0.0005	<0.0005	0.0033	<0.0005	<0.0005	<0.001	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
		0937_QC206_201110	Interlab_D	757178	0.048	<0.005	0.048	<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
	28 Jan 2021	0937_SD223_210128	Normal	EM2101229	0.0080	<0.0004	0.0085	<0.0004	<0.0004	0.0005	<0.0004	<0.0004	<0.001	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	28 Apr 2021	0937_SD223_20210428	Normal	EM2107858	0.0100	<0.0002	0.0107	<0.0002	<0.0002	0.0007	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Jul 2021	0937_QC207_210713	Interlab_D	811260	0.13	<0.005	0.151	<0.005	<0.005	0.021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	14 Jul 2021	0937_QC107_210714	Field_D	EM2113872-AB	0.0448	<0.0037	0.0514	<0.0037	<0.0037	0.0066	<0.0037	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037
	15 Jul 2021	0937_SD223_210715	Normal	EM2113872-AB	0.0474	<0.0035	0.0511	<0.0035	<0.0035	0.0037	<0.0035	<0.0035	<0.017	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
	15 Nov 2021	0937_SD223_211115	Normal	EM2123080	0.0430	0.0003	0.0462	0.0003	0.0002	0.0032	0.0006	0.0007	<0.001	0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Feb 2022	0937_SD223_220217	Normal	EM2202703	0.0306	<0.0002	0.0328	<0.0002	<0.0002	0.0022	<0.0002	<0.0002	<0.001	0.001	0.0018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 May 2022	0937_SD223_220525	Normal	EM2210316	0.0423	<0.0004	0.0456	0.0006	<0.0004	0.0033	<0.0004	<0.0004	<0.002	0.0048	0.0062	0.0015	<0.0004	<0.0004	<0.0004	<0.0004	0.0007
	24 Aug 2022	0937_SD223_220824	Normal	EM2216476	0.0441	0.0002	0.0487	0.0003	0.0004	0.0046	0.0004	0.0008	<0.001	0.0025	0.0014	0.0011	<0.0002	0.0003	<0.0002	0.0002	0.0003
	16 Nov 2023	0937_SD223_231116	Normal	EM2320952	0.0272	<0.0004	0.0307	<0.0004	<0.0004	0.0035	<0.0004	<0.0004	<0.002	0.0011	0.0023	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
SD226	13 Oct 2016	SD226	Normal	EM1612198	0.811	0.0038	0.8765	0.0055	0.0053	0.0655	0.0066	0.0158	<0.001	0.0021	0.0088	0.001	<0.0002	<0.0002	<0.0002	0.0008	<0.0002
	25 Nov 2019	0937_SD226_191125	Normal	EM1920529	0.556	0.0047	0.618	0.0068	0.0055	0.0618	0.0074	0.0186	0.004	0.0050	0.0241	0.0012	<0.0002	0.0002	0.0004	0.0013	<0.0002
	17 Mar 2020	0937_SD226_20200317	Normal	EM2004711	0.692	0.0050	0.755	0.0038	0.0041	0.0632	0.0073	0.0215	0.004	0.0037	0.0144	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	16 Jun 2020	0937_SD226_20200616	Normal	EM2010514	0.370	0.0028	0.396	0.0028	0.0030	0.0263	0.0039	0.0260	0.003	0.0020	0.0068	0.0007	<0.0002	<0.0002	0.0002	0.0007	<0.0002
	10 Nov 2020	0937_SD226_201110	Normal	EM2020050	0.171	0.0015	0.194	0.0019	0.0015	0.0228	0.0033	0.0186	0.002	0.0016	0.0041	0.0004	<0.0002	<0.0002	<0.0002	0.0006	<0.0002
	28 Jan 2021	0937_SD226_210128	Normal	EM2101229	0.489	0.0022	0.523	0.0016	0.0020	0.0340	0.0091	0.0377	0.002	0.0016	0.0053	0.0005	<0.0002	<0.0002	0.0003	0.0009	<0.0002
	28 Apr 2021	0937_SD226_20210428	Normal	EM2107858	0.422	0.0022	0.460	0.0025	0.0026	0.0376	0.0057	0.0278	0.001	0.0016	0.0054	0.0006	<0.0002	<0.0002	<0.0002	0.0008	<0.0002
	14 Jul 2021	0937_SD226_210714	Normal	EM2113872-AB	0.342	0.0017	0.372	0.0026	0.0016	0.0301	0.0056	0.0191	0.002	0.0022	0.0056	0.0004	<0.0002	<0.0002	<0.0002	0.0005	<0.0002
	12 Nov 2021	0937_SD226_2111012	Normal	EM2123080	0.316	0.0007	0.326	0.0007	0.0006	0.0097	0.0028	0.0136	<0.001	0.0004	0.0008	0.0003	<0.0002	<0.0002	<0.0002	0.0007	<0.0002
	22 Feb 2022	0937_SD226_220222	Normal	EM2203247	0.311	0.0027	0.362	0.0084	0.0044	0.0515	0.0042	0.0152	0.004	0.0044	0.0134	0.0009	<0.0002	<0.0002	<0.0002	0.0007	<0.0002
	26 May 2022	0937_SD226_220525	Normal	EM2210316	0.705	0.0030	0.755	0.0073	0.0056	0.0503	0.0073	0.0184	0.003	0.0030	0.0109	0.0011	<0.0002	<0.0002	0.0003	0.0011	<0.0002
	23 Aug 2022	0937_SD226_220823	Normal	EM2216476	0.423	0.0017	0.448	0.0027	0.0024	0.0252	0.0038	0.0158	0.002	0.0024	0.0052	0.0006	<0.0002	<0.0002	<0.0002	0.0006	<0.0002
	23 Nov 2022	0937_SD226_221123	Normal	EM2223510	0.330	0.0019	0.356	0.0028	0.0022	0.0259	0.0034	0.0213	0.003	0.0021	0.0056	0.0005	<0.0002	<0.0002	0.0003	0.0009	<0.0002
	17 Nov 2023	0937_SD226_231117	Normal	EM2320952	0.377	0.0017	0.397	0.0014	0.0015	0.0203	0.0019	0.0225	0.001	0.0015	0.0036	0.0005	<0.0002	<0.0002	0.0004	0.0007	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD227	14 Oct 2016	SD227	Normal	EM1612198	0.0236	0.0008	0.0244	<0.0002	<0.0002	0.0008	<0.0002	0.0005	<0.001	0.0004	0.0005	<0.0002	0.0005	0.0003	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD227_191125	Normal	EM1920529	0.0020	<0.0002	0.0020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD227_20200317	Normal	EM2004711	0.0022	<0.0002	0.0022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD227_200616	Normal	EM2010514	0.0034	0.0002	0.0036	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	0.0003	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD227_201110	Normal	EM2020050	0.0096	<0.0002	0.0099	<0.0002	<0.0002	0.0003	<0.0002	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD227_210128	Normal	EM2101229	0.0037	<0.0002	0.0041	<0.0002	<0.0002	0.0004	<0.0002	0.0003	<0.001	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	0937_ SD227_20210428	Normal	EM2107858	0.0047	<0.0002	0.0054	<0.0002	<0.0002	0.0007	<0.0002	0.0009	<0.001	0.0003	0.0004	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	14 Jul 2021	0937_SD227_210714	Normal	EM2113872-AB	0.0028	0.0007	0.0028	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC112_210714	Field_D	EM2113872-AB	0.0018	0.0006	0.0018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC212_210714	Interlab_D	811260	<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
	16 Nov 2021	0937_SD227_211116	Normal	EM2123080	0.0063	0.0007	0.0066	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD227_220221	Normal	EM2203247	0.0155	<0.0002	0.0161	<0.0002	<0.0002	0.0006	<0.0002	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.0002
	25 May 2022	0937_SD227_220525	Normal	EM2210316	0.0041	0.0003	0.0044	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC111_220525	Field_D	EM2210316	0.0035	0.0003	0.0035	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC211_220525	Interlab_D	893740	<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
	24 Aug 2022	0937_SD227_220824	Normal	EM2216476	0.0083	0.0006	0.0089	<0.0002	<0.0002	0.0006	<0.0002	0.0003	<0.001	0.0004	0.0005	0.0003	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	24 Nov 2022	0937_SD227_221124	Normal	EM2223510	0.0035	<0.0002	0.0037	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD227_231116	Normal	EM2320952	0.0040	0.0006	0.0042	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0003	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC116_231116	Field_D	EM2320952	0.0036	0.0007	0.0038	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC216_231116	Interlab_D	1048259	<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
SD230	13 Oct 2016	SD230	Normal	EM1612198	0.0347	0.0002	0.0392	<0.0002	<0.0002	0.0045	0.0004	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD230_191125	Normal	EM1920529	0.0085	<0.0002	0.0088	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Mar 2020	0937_SD230_20200318	Normal	EM2004711	0.0424	<0.0002	0.0464	<0.0002	0.0003	0.0040	0.0005	0.0011	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD230_200617	Normal	EM2010514	0.108	0.0016	0.119	<0.0002	0.0005	0.0108	0.0010	0.0024	<0.001	0.0004	0.0018	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	11 Nov 2020	0937_SD230_201111	Normal	EM2020050	0.0207	<0.0002	0.0231	0.0002	0.0002	0.0024	0.0002	0.0006	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Feb 2021	0937_SD230_210201	Normal	EM2101575	0.0239	0.0002	0.0265	<0.0002	<0.0002	0.0026	0.0002	0.0008	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Apr 2021	0937_ SD230_20210427	Normal	EM2107858	0.0134	<0.0002	0.0141	<0.0002	<0.0002	0.0007	<0.0002	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD230_210715	Normal	EM2113872-AB	0.0346	<0.0002	0.0391	<0.0002	<0.0002	0.0045	0.0003	0.0005	<0.001	0.0003	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD230_211112	Normal	EM2123080	0.0618	0.0004	0.0694	0.0004	0.0004	0.0076	0.0007	0.0008	<0.001	0.0002	0.0006	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD230_220218	Normal	EM2202703	0.0534	0.0005	0.0569	0.0003	0.0002	0.0035	0.0004	0.0018	<0.001	0.0065	0.0058	0.0024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC114_220218	Field_D	EM2202703	0.0616	0.0002	0.0656	0.0002	0.0002	0.004	0.0004	0.0024	<0.001	0.0054	0.0048	0.0015	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
		0937_QC214_220218	Interlab_D	864735	0.07	<0.005	0.07	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0066	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	30 May 2022	0937_SD230_220530	Normal	EM2210316	0.0535	0.0014	0.0582	<0.0002	<0.0002	0.0047	0.0005	0.0009	<0.001	0.0018	0.0023	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD230_220823	Normal	EM2216476	0.0349	0.0005	0.0386	0.0002	<0.0002	0.0037	<0.0002	0.0009	0.001	0.0028	0.0018	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD230_221129	Normal	EM2223972	0.0313	0.0009	0.0369	<0.0002	0.0002	0.0056	0.0004	0.0005	<0.001	0.0016	0.0020	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD230_231115	Normal	EM2320952	0.0159	<0.0002	0.0166	<0.0002	<0.0002	0.0007	<0.0002	0.0003	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC106_231115	Field_D	EM2320952	0.0170	<0.0002	0.0179	<0.0002	<0.0002	0.0009	<0.0002	0.0003	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC206_231115	Interlab_D	1048259	0.016	<0.005	0.016	<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
SD231	13 Oct 2016	SD231	Normal	EM1612198	0.378	0.004	0.484	0.0038	0.005	0.106	0.0066	0.0031	<0.001	0.0004	0.0072	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Nov 2019	0937_SD231_191126	Normal	EM1920529	0.0256	0.0003	0.0274	<0.0002	<0.0002	0.0018	<0.0002	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD231_20200317	Normal	EM2004711	0.0776	<0.0002	0.0817	0.0003	0.0004	0.0041	0.0004	0.0012	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD231_200616	Normal	EM2010514	0.277	0.0005	0.288	0.0004	0.0005	0.0105	0.0010	0.0072	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD231_201110	Normal	EM2020050	0.179	<0.0002	0.185	0.0003	0.0002	0.0064	0.0008	0.0040	<0.001	0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD231_210129	Normal	EM2101229	0.0610	<0.0002	0.0651	0.0002	0.0002	0.0041	0.0003	0.0015	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC108_210129	Field_D	EM2101229	0.0737	<0.0002	0.0779	0.0003	0.0003	0.0042	0.0005	0.0010	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC208_210128	Interlab_D	770470	0.35	<0.005	0.364	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	26 Apr 2021	0937_ SD231_20210426	Normal	EM2107858	0.175	0.0003	0.186	0.0006	0.0004	0.0111	0.0013	0.0028	<0.001	0.0002	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD231_210715	Normal	EM2113872-AB	0.130	0.0003	0.134	<0.0002	<0.0002	0.0041	0.0006	0.0014	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD231_211112	Normal	EM2123080	0.0356	0.0003	0.0387	0.0004	<0.0002	0.0031	0.0003	0.0014	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD231_220218	Normal	EM2202703	0.133	0.0007	0.155	0.0014	0.0014	0.0224	0.0026	0.0035	<0.001	<0.0002	0.0027	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC117_220218	Field_D	EM2202703	0.155	0.0009	0.182	0.0018	0.0019	0.0265	0.0027	0.0026	<0.001	<0.0002	0.003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC217_220218	Interlab_D	864735	0.24	<0.005	0.266	<0.005	<0.005	0.026	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	26 May 2022	0937_SD231_220526	Normal	EM2210316	0.0761	0.0002	0.0818	0.0002	<0.0002	0.0057	0.0009	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD231_220823	Normal	EM2216476	0.0122	<0.0002	0.0134	<0.0002	<0.0002	0.0012	<0.0002	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD231_221128	Normal	EM2223972	0.0751	0.0005	0.0957	0.0007	0.0011	0.0206	0.0015	0.0016	<0.001	<0.0002	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Nov 2023	0937_SD231_231120	Normal	EM2320952	0.0575	0.0003	0.0680	0.0006	0.0009	0.0105	0.0007	0.0012	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD233	13 Oct 2016	SD233	Normal	EM1612198	0.15	0.0023	0.2209	0.003	0.0028	0.0709	0.0057	<0.0002	<0.001	0.0003	0.0056	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Nov 2019	0937_SD233_191126	Normal	EM1920529	0.0227	0.0003	0.0320	0.0006	0.0009	0.0093	0.0005	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Mar 2020	0937_SD233_20209326	Normal	EM2005033	0.0729	<0.0002	0.0770	0.0003	<0.0002	0.0041	0.0005	0.0011	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD233_200616	Normal	EM2010514	0.0428	0.0002	0.0465	0.0002	0.0003	0.0037	0.0003	0.0006	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD233_200623	Normal	EM2010697	0.0155	0.0002	0.0213	0.0007	0.0004	0.0058	0.0004	<0.0002	<0.001	0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD233_201110	Normal	EM2020050	0.0709	<0.0002	0.0738	<0.0002	<0.0002	0.0029	0.0004	0.0007	<0.001	0.0008	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD233_210128	Normal	EM2101229	0.0398	<0.0002	0.0432	0.0002	0.0002	0.0034	<0.0002	0.0006	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_SD233_20210426	Normal	EM2107858	0.0467	<0.0002	0.0491	0.0002	<0.0002	0.0024	<0.0002	0.0007	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD233_210715	Normal	EM2113872-AB	0.0861	0.0003	0.0918	<0.0002	0.0002	0.0057	0.0008	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2021	0937_SD233_211115	Normal	EM2123080	0.0439	0.0004	0.0474	<0.0002	0.0002	0.0035	0.0008	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC111_211115	Field_D	EM2123080	0.0448	0.0006	0.0540	0.0003	0.0004	0.0092	0.0013	<0.0002	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC211_211115	Interlab_D	842318	0.087	<0.005	0.106	<0.005	<0.005	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	17 Feb 2022	0937_SD233_220216	Normal	EM2202703	0.074	0.0003	0.0813	0.0007	0.0006	0.0073	0.0008	0.0008	<0.001	0.0002	0.0012	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 May 2022	0937_SD233_220526	Normal	EM2210316	0.0363	<0.0002	0.0388	0.0003	<0.0002	0.0025	<0.0002	0.0003	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Aug 2022	0937_SD233_220825	Normal	EM2216476	0.0281	<0.0002	0.0308	<0.0002	<0.0002	0.0027	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Nov 2022	0937_SD233_221124	Normal	EM2223510	0.128	0.0004	0.135	<0.0002	0.0004	0.0069	0.0008	0.0011	<0.001	<0.0002	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD233_231116	Normal	EM2320952	0.0486	<0.0002	0.0533	<0.0002	0.0002	0.0047	0.0004	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD239	13 Oct 2016	SD239	Normal	EM1612198	0.177	0.0013	0.1985	0.0005	0.001	0.0215	0.0024	0.0046	<0.001	<0.0002	0.0023	0.0003	<0.0002	<0.0002	0.0003	0.0004	<0.0002
	26 Nov 2019	0937_SD239_191126	Normal	EM1920529	0.169	0.0008	0.182	0.0009	<0.0002	0.0130	0.0010	0.0039	0.001	0.0032	0.0120	0.0011	<0.0002	<0.0002	<0.0002	0.0006	0.0003
	17 Mar 2020	0937_SD239_20200317	Normal	EM2004711	1.65	0.298	3.39	0.120	0.304	1.74	0.0930	<0.0005	0.031	0.114	0.517	0.171	0.0016	<0.0005	<0.0005	<0.0005	<0.0005
	16 Jun 2020	0937_SD239_20200616	Normal	EM2010514	0.191	0.0009	0.201	<0.0002	0.0006	0.0097	0.0010	0.0094	<0.001	0.0027	0.0049	0.0009	<0.0002	<0.0002	<0.0002	0.0009	0.0011
	10 Nov 2020	0937_SD239_201110	Normal	EM2020050	2.77	0.0060	2.81	0.0108	0.0056	0.0380	0.0223	0.0003	0.007	0.0068	0.0261	0.0031	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD239_210128	Normal	EM2101229	0.0383	0.0003	0.0425	0.0023	0.0008	0.0042	0.0005	0.0003	0.001	0.0006	0.0012	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Apr 2021	0937_QC104_20210426	Field_D	EM2107858	0.0918	0.0004	0.0989	0.0004	0.0003	0.0071	0.0009	0.0069	<0.001	0.0004	0.0014	<0.0002	<0.0002	<0.0002	<0.0002	0.0004	0.0003
		QC204_20210426	Interlab_D	792537	0.098	<0.005	0.098	<0.005	<0.005	<0.005	<0.005	0.0093	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	30 Apr 2021	0937_SD239_20210426	Normal	EM2107858	0.0664	0.0004	0.0720	0.0003	0.0003	0.0056	0.0008	0.0054	<0.001	0.0004	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	0.0004	0.0002
	15 Jul 2021	0937_SD239_210715	Normal	EM2113872-AB	0.0225	<0.0002	0.0240	<0.0002	<0.0002	0.0015	<0.0002	0.0006	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2021	0937_SD239_211112	Normal	EM2123080	0.478	0.0189	0.553	0.0077	0.0070	0.0748	0.0156	<0.0002	0.006	0.0068	0.0172	0.0036	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	17 Feb 2022	0937_SD239_220217	Normal	EM2202703	0.534	0.0022	0.57	0.0033	0.0028	0.036	0.0074	0.0316	<0.001	0.0015	0.0058	0.0008	<0.0002	<0.0002	<0.0002	0.0011	<0.0002
	26 May 2022	0937_SD239_220526	Normal	EM2210316	0.101	0.0009	0.115	0.0006	0.0010	0.0143	0.0017	0.0065	<0.001	0.0021	0.0023	0.0010	<0.0002	<0.0002	<0.0002	0.0005	0.0002
	23 Aug 2022	0937_SD239_220823	Normal	EM2216476	0.117	0.0005	0.125	<0.0002	0.0002	0.0083	0.0013	0.0078	<0.001	0.0011	0.0008	0.0004	<0.0002	<0.0002	0.0003	0.0006	0.0004
	24 Nov 2022	0937_SD239_221124	Normal	EM2223510	0.160	0.0008	0.172	0.0004	0.0006	0.0122	0.0017	0.0069	<0.001	0.0006	0.0014	0.0003	<0.0002	<0.0002	0.0002	0.0007	0.0003
	17 Nov 2023	0937_SD239_231117	Normal	EM2320952	0.0789	0.0006	0.0861	0.0004	0.0007	0.0072	0.0008	0.0170	<0.001	0.0002	0.0014	0.0003	<0.0002	<0.0002	0.0003	0.0008	0.0006
SD242	12 Oct 2016	SD242	Normal	EM1612198	0.184	0.0006	0.193	0.0004	0.0005	0.009	0.0014	0.0028	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD242_191125	Normal	EM1920529	0.330	0.0008	0.345	0.0008	0.0007	0.0151	0.0021	0.0062	<0.001	0.0004	0.0024	0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD242_20200317	Normal	EM2004711	0.304	0.0008	0.314	0.0004	0.0005	0.0105	0.0015	0.0075	0.002	0.0002	0.0010	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD242_2020061	Normal	EM2010514	0.345	0.0009	0.357	0.0011	0.0008	0.0123	0.0017	0.0101	<0.001	<0.0002	0.0011	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD242_200623	Normal	EM2010697	0.473	0.0008	0.482	0.0006	0.0004	0.0085	0.0025	0.0074	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	10 Nov 2020	0937_SD242_201110	Normal	EM2020050	0.401	0.0006	0.413	0.0006	0.0004	0.0120	0.0022	0.0064	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Jan 2021	0937_SD242_210128	Normal	EM2101229	0.221	0.0006	0.230	0.0005	0.0005	0.0088	0.0014	0.0074	<0.001	0.0003	0.0009	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	0937_SD242_20210428	Normal	EM2107858	0.564	0.0014	0.578	0.0003	0.0004	0.0137	0.0035	0.0083	<0.001	0.0003	0.0018	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	14 Jul 2021	0937_SD242_210714	Normal	EM2113872-AB	0.120	<0.0002	0.124	0.0002	0.0002	0.0037	0.0006	0.0060	<0.001	0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC110_210714	Field_D	EM2113872-AB	0.133	<0.0004	0.137	<0.0004	<0.0004	0.0042	<0.0004	0.0033	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
		0937_QC210_210714	Interlab_D	811260	0.13	<0.005	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	<0.005	<0.005
	12 Nov 2021	0937_SD242_211112	Normal	EM2123080	0.173	0.0002	0.179	0.0005	0.0004	0.0056	0.0013	0.0055	<0.001	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD242_220218	Normal	EM2202703	0.173	0.0003	0.181	0.0006	0.0006	0.0078	0.0012	0.0119	<0.001	0.0006	0.0011	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 May 2022	0937_SD242_220525	Normal	EM2210316	0.209	0.0002	0.216	0.0004	0.0003	0.0065	0.0012	0.0035	<0.001	0.0004	0.0006	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Aug 2022	0937_SD242_220824	Normal	EM2216476	0.0691	<0.0002	0.0733	0.0004	0.0005	0.0042	0.0006	0.0020	<0.001	0.0003	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD242_221123	Normal	EM2223510	0.330	0.0007	0.346	0.0011	0.0010	0.0161	0.0025	0.0106	<0.001	<0.0002	0.0006	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD242_231116	Normal	EM2320952	0.0531	<0.0002	0.0546	<0.0002	<0.0002	0.0015	0.0002	0.0017	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC111_231116	Field_D	EM2320952	0.0682	<0.0002	0.0702	<0.0002	<0.0002	0.0020	0.0004	0.0023	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC211_231116	Interlab_D	1048259	0.068	<0.005	0.068	<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

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD246	12 Oct 2016	SD246	Normal	EM1612198	0.0475	0.0005	0.0538	0.0002	0.0003	0.0063	0.0006	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD246_191125	Normal	EM1920529	0.0743	0.0003	0.0828	0.0007	0.0005	0.0085	0.0008	0.0013	<0.001	0.0012	0.0021	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Mar 2020	0937_SD246_20200318	Normal	EM2004711	0.0436	0.0005	0.0469	<0.0002	<0.0002	0.0033	0.0003	0.0004	<0.001	0.0004	0.0009	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD246_200617	Normal	EM2010514	0.0338	<0.0002	0.0374	0.0002	0.0003	0.0036	0.0003	0.0004	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD246_201111	Normal	EM2020050	0.123	0.0004	0.127	<0.0002	<0.0002	0.0041	0.0007	0.0016	<0.001	0.0003	0.0006	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Feb 2021	0937_SD246_210201	Normal	EM2101575	0.105	0.0006	0.113	0.0002	0.0002	0.0076	0.0011	0.0023	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	27 Apr 2021	0937_SD246_20210427	Normal	EM2107858	0.0667	0.0003	0.0717	<0.0002	<0.0002	0.0050	0.0006	0.0009	<0.001	0.0003	0.0009	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC106_20210427	Field_D	EM2107858	0.0600	0.0003	0.0645	<0.0002	<0.0002	0.0045	0.0005	0.0008	<0.001	0.0004	0.0006	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QC206_20210427	Interlab_D	792537	0.14	<0.005	0.1472	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	04 Aug 2021	0937_SD246_210804	Normal	EM2115476	0.0687	<0.0004	0.0747	<0.0004	<0.0004	0.0060	0.0004	0.0005	<0.002	<0.0004	0.0005	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
		0937_QC124_210804	Field_D	EM2115476	0.0783	0.0006	0.0853	0.0003	0.0002	0.0070	0.0007	0.0006	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC224_210804	Interlab_D	815502	0.096	<0.005	0.1033	<0.005	<0.005	0.0073	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	12 Nov 2021	0937_SD246_211112	Normal	EM2123080	0.0496	0.0003	0.0558	0.0003	0.0003	0.0062	0.0006	0.0011	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD246_220218	Normal	EM2202703	0.0947	0.0005	0.102	0.0005	0.0004	0.0072	0.0008	0.003	<0.001	0.0019	0.0022	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC113_220218	Field_D	EM2202703	0.0865	0.0004	0.0924	0.0004	0.0004	0.0059	0.0007	0.0022	<0.001	0.0009	0.0014	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC213_220218	Interlab_D	864735	0.091	<0.005	0.0982	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	30 May 2022	0937_SD246_220530	Normal	EM2210316	0.0651	0.0006	0.0707	<0.0002	0.0002	0.0056	0.0006	0.0006	<0.001	0.0011	0.0011	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD246_220823	Normal	EM2216476	0.0836	0.0005	0.0878	0.0003	<0.0002	0.0042	0.0004	0.0011	<0.001	0.0007	0.0013	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD246_221129	Normal	EM2223972	0.0643	0.0027	0.0771	0.0003	0.0005	0.0128	0.0010	0.0004	<0.001	0.0016	0.0037	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD246_231115	Normal	EM2320952	0.0796	0.0003	0.0831	<0.0002	<0.0002	0.0035	0.0006	0.0018	<0.001	0.0029	0.0022	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD247	13 Oct 2016	SD247	Normal	EM1612198	0.0078	<0.0002	0.0084	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Nov 2019	0937_SD247_191125	Normal	EM1920529	0.0043	<0.0002	0.0047	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD247_20200320	Normal	EM2004711	0.0133	<0.0002	0.0143	<0.0002	<0.0002	0.0010	<0.0002	0.0004	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC105_20200320	Field_D	EM2004711	0.0188	<0.0002	0.0201	<0.0002	<0.0002	0.0013	<0.0002	0.0003	<0.001	0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC205_20200320	Interlab_D	711148	0.036	<0.005	0.036	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	17 Jun 2020	0937_SD247_200617	Normal	EM2010514	0.0070	<0.0002	0.0076	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC104_200617	Field_D	EM2010514	0.0043	<0.0002	0.0047	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC204_200617	Interlab_D	726765	0.013	<0.005	0.013	<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
	09 Nov 2020	0937_SD247_201109	Normal	EM2020050	0.0083	0.0002	0.0104	0.0003	0.0002	0.0021	<0.0002	0.0002	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	27 Jan 2021	0937_SD247_210127	Normal	EM2101229	0.0031	<0.0002	0.0033	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_SD247_20210420	Normal	EM2107085	0.0066	<0.0002	0.0077	<0.0002	<0.0002	0.0011	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD247_210715	Normal	EM2113872-AB	0.0044	<0.0002	0.0050	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Nov 2021	0937_SD247_211117	Normal	EM2123080	0.0053	<0.0002	0.0057	<0.0002	<0.0002	0.0004	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC117_211117	Field_D	EM2123080	0.0498	<0.0002	0.0534	0.0002	0.0002	0.0036	0.0004	0.0012	<0.001	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC217_211117	Interlab_D	842318	0.018	<0.005	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	18 Feb 2022	0937_SD247_220218	Normal	EM2202703	0.0078	<0.0002	0.0094	0.0002	<0.0002	0.0016	<0.0002	0.0002	<0.001	0.0037	0.0024	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 May 2022	0937_SD247_220530	Normal	EM2210316	0.0147	<0.0002	0.0157	<0.0002	<0.0002	0.0010	<0.0002	0.0005	<0.001	0.0015	0.0010	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	25 Aug 2022	0937_SD247_220825	Normal	EM2216476	0.0457	0.0003	0.0501	0.0002	<0.0002	0.0044	0.0005	0.0007	<0.001	0.0012	0.0009	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD247_231115	Normal	EM2320952	0.0089	<0.0002	0.0095	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	0.0007	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD249	13 Oct 2016	SD249	Normal	EM1612198	0.0132	<0.0002	0.0148	<0.0002	<0.0002	0.0016	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	27 Nov 2019	0937_SD249_191127	Normal	EM1920529	0.0191	<0.0002	0.0211	<0.0002	<0.0002	0.0020	<0.0002	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD249_20200320	Normal	EM2004711	0.0192	<0.0002	0.0204	<0.0002	<0.0002	0.0012	<0.0002	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD249_20200617	Normal	EM2010514	0.0037	<0.0002	0.0043	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD249_201112	Normal	EM2020050	0.0266	<0.0002	0.0281	0.0002	0.0002	0.0015	0.0002	0.0006	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	03 Feb 2021	0937_SD249_210203	Normal	EM2101575	0.0111	<0.0002	0.0117	<0.0002	<0.0002	0.0006	<0.0002	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD249_20210429	Normal	EM2107858	0.0096	<0.0002	0.0103	<0.0002	<0.0002	0.0007	<0.0002	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD249_210715	Normal	EM2113872-AB	0.0142	<0.0002	0.0150	<0.0002	<0.0002	0.0008	<0.0002	0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Nov 2021	0937_SD249_211117	Normal	EM2123080	0.0138	<0.0002	0.0149	<0.0002	<0.0002	0.0011	<0.0002	0.0002	<0.001	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD249_220221	Normal	EM2203247	0.0096	<0.0002	0.0105	<0.0002	<0.0002	0.0009	<0.0002	0.0003	<0.001	0.0016	0.001	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 May 2022	0937_SD249_220530	Normal	EM2210316	0.0125	<0.0002	0.0133	<0.0002	<0.0002	0.0008	<0.0002	0.0004	<0.001	0.0018	0.0009	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD249_220902	Normal	EM2217000	0.0231	<0.0002	0.0247	<0.0002	<0.0002	0.0016	<0.0002	0.0004	<0.001	0.0020	0.0009	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Nov 2022	0937_SD249_221129	Normal	EM2223972	0.0208	<0.0002	0.0228	<0.0002	<0.0002	0.0020	<0.0002	0.0008	<0.001	0.0016	0.0013	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD249_231115	Normal	EM2320952	0.0215	<0.0002	0.0223	<0.0002	<0.0002	0.0008	<0.0002	0.0005	<0.001	0.0021	0.0013	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD251	13 Oct 2016	SD251	Normal	EM1612198	0.0461	0.0004	0.0523	0.0004	0.0004	0.0062	0.0012	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Dec 2019	0937_SD251_191202	Normal	EM1920780	0.0425	<0.0002	0.0442	<0.0002	<0.0002	0.0017	0.0002	0.0022	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC106_191202	Field_D	EM1920780	0.0927	0.0002	0.0962	<0.0002	<0.0002	0.0035	0.0005	0.0044	<0.001	0.0004	0.0007	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC206_191203	Interlab_D	EM1920780	0.0296	<0.0002	0.0308	<0.0002	<0.0002	0.0012	<0.0002	0.0013	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD251_20200320	Normal	EM2004711	0.0562	<0.0002	0.0580	<0.0002	<0.0002	0.0018	0.0003	0.0028	<0.001	0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD251_200617	Normal	EM2010514	0.0259	<0.0002	0.0276	<0.0002	<0.0002	0.0017	<0.0002	0.0006	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD251_201112	Normal	EM2020050	0.124	0.0003	0.130	0.0004	0.0004	0.0061	0.0006	0.0026	<0.001	0.0017	0.0017	0.0007	<0.0002	<0.0002	0.0002	0.0007	<0.0002
	29 Jan 2021	0937_SD251_210129	Normal	EM2101229	0.0128	<0.0002	0.0133	<0.0002	<0.0002	0.0005	<0.0002	0.0006	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_SD251_20210420	Normal	EM2107085	0.0695	0.0004	0.0751	0.0005	0.0003	0.0056	0.0006	0.0038	<0.001	0.0010	0.0014	0.0003	<0.0002	0.0005	0.0002	0.0004	<0.0002
	05 Aug 2021	0937_SD251_210805	Normal	EM2115476	0.0755	<0.0004	0.0817	<0.0004	<0.0004	0.0062	0.0005	0.0013	<0.002	0.0007	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	18 Nov 2021	0937_SD251_211118	Normal	EM2123080	0.0211	<0.0002	0.0225	<0.0002	<0.0002	0.0014	0.0003	0.0004	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD251_220221	Normal	EM2203247	0.0024	<0.0002	0.0041	<0.0002	<0.0002	0.0017	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 May 2022	0937_SD251_220530	Normal	EM2210316	0.0083	<0.0002	0.0101	<0.0002	<0.0002	0.0018	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD251_220823	Normal	EM2216476	0.0049	<0.0002	0.0063	<0.0002	<0.0002	0.0014	<0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	30 Nov 2022	0937_SD251_221130	Normal	EM2223972	0.0226	<0.0002	0.0246	<0.0002	<0.0002	0.0020	0.0003	0.0003	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Nov 2023	0937_SD251_231115	Normal	EM2320952	0.0383	0.0002	0.0418	0.0002	0.0003	0.0035	0.0005	0.0007	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD256	13 Oct 2016	SD256	Normal	EM1612198	0.0392	0.0005	0.0467	0.0005	0.0002	0.0075	0.0008	0.0008	<0.001	<0.0002	0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2019	0937_SD256_191122	Normal	EM1920034	0.290	0.0007	0.301	0.0005	0.0007	0.0108	0.0017	0.0099	0.002	0.0135	0.0128	0.0022	<0.0002	0.0002	0.0004	0.0008	0.0002
	17 Mar 2020	0937_SD256_20200317	Normal	EM2004711	1.33	0.0087	1.38	0.0012	0.0018	0.0502	0.0184	<0.0002	<0.001	0.0020	0.0044	0.0013	0.0012	<0.0002	<0.0002	<0.0002	<0.0002
	16 Jun 2020	0937_SD256_20200616	Normal	EM2010514	0.121	0.0006	0.126	0.0002	0.0003	0.0051	0.0008	0.0151	<0.001	0.0007	0.0016	0.0004	<0.0002	<0.0002	0.0003	0.0008	<0.0002
	10 Nov 2020	0937_SD256_201110	Normal	EM2020050	0.0391	<0.0002	0.0421	0.0002	0.0003	0.0030	0.0003	0.0034	<0.001	0.0003	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	<0.0002
		0937_QC205_201110	Interlab_D	757178	0.064	<0.005	0.064	<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
	28 Jan 2021	0937_SD256_210128	Normal	EM2101229	0.0885	0.0002	0.0931	0.0002	0.0003	0.0046	0.0007	0.0090	<0.001	0.0007	0.0008	0.0002	<0.0002	<0.0002	<0.0002	0.0004	<0.0002
	26 Apr 2021	0937_SD256_20210426	Normal	EM2107858	0.0965	0.0004	0.102	0.0004	0.0004	0.0060	0.0010	0.0134	<0.001	0.0005	0.0012	0.0002	<0.0002	<0.0002	<0.0002	0.0005	<0.0002
		0937_QC103_20210426	Field_D	EM2107858	0.120	0.0005	0.130	0.0007	0.0006	0.0099	0.0014	0.0150	<0.001	0.0007	0.0018	0.0003	<0.0002	<0.0002	<0.0002	0.0006	0.0003
		QC203_20210426	Interlab_D	792537	0.12	<0.005	0.12	<0.005	<0.005	<0.005	<0.005	0.0084	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	14 Jul 2021	0937_SD256_210714	Normal	EM2113872-AB	0.0140	<0.0002	0.0149	<0.0002	<0.0002	0.0009	<0.0002	0.0007	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC116_210714	Field_D	EM2113872-AB	0.0096	<0.0002	0.0106	<0.0002	<0.0002	0.0010	<0.0002	0.0007	<0.001	0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC216_210714	Interlab_D	811260	0.018	<0.005	0.018	<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
	12 Nov 2021	0937_SD256_211112	Normal	EM2123080	0.0218	<0.0002	0.0232	<0.0002	<0.0002	0.0014	0.0002	0.0011	<0.001	0.0004	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Feb 2022	0937_SD256_220217	Normal	EM2202703	0.0011	0.0002	0.0066	0.0019	0.0014	0.0055	<0.0002	<0.0002	<0.001	0.0019	0.0052	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 May 2022	0937_SD256_220526	Normal	EM2210316	0.204	0.0022	0.217	0.0008	0.0008	0.0133	0.0044	<0.0002	<0.001	0.0014	0.0027	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	24 Aug 2022	0937_SD256_220824	Normal	EM2216476	0.0573	0.0010	0.0652	<0.0002	<0.0002	0.0079	0.0007	0.0007	<0.001	0.0006	0.0010	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Nov 2022	0937-QC211-221128	Interlab_D	946451	0.048	<0.005	0.0532	<0.005	<0.005	0.0052	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	29 Nov 2022	0937_SD256_221128	Normal	EM2223972	0.0251	0.0002	0.0285	<0.0002	<0.0002	0.0034	0.0004	0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC111_221128	Field_D	EM2223972	0.0346	0.0003	0.0393	0.0002	0.0002	0.0047	0.0006	0.0005	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Nov 2023	0937_SD256_231120	Normal	EM2320952	0.0600	0.0003	0.0626	0.0002	<0.0002	0.0026	0.0004	0.0084	<0.001	0.0003	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD257	13 Oct 2016	SD257	Normal	EM1612198	0.263	0.0033	0.3338	0.0014	0.003	0.0708	0.0062	<0.0002	<0.001	0.0006	0.0086	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Dec 2019	0937_SD257_191202	Normal	EM1920780	0.0404	0.0004	0.0452	<0.0002	0.0003	0.0048	0.0005	<0.0002	<0.001	0.0026	0.0020	0.0009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC107_191202	Field_D	EM1920780	0.0903	0.0009	0.104	0.0004	0.0007	0.0140	0.0012	0.0004	<0.001	0.0079	0.0058	0.0026	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC207_191202	Interlab_D	EM1920780	0.0244	0.0003	0.0291	0.0002	0.0003	0.0047	0.0004	<0.0002	<0.001	0.0048	0.0035	0.0012	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Mar 2020	0937_SD257_20200317	Normal	EM2004711	0.0171	0.0003	0.0213	0.0003	<0.0002	0.0042	0.0003	<0.0002	<0.001	0.0003	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	17 Jun 2020	0937_SD257_20200617	Normal	EM2010514	0.195	0.0006	0.205	0.0006	0.0006	0.0097	0.0010	0.0071	<0.001	0.0009	0.0030	0.0005	<0.0002	0.0002	<0.0002	0.0003	<0.0002
	11 Nov 2020	0937_SD257_201111	Normal	EM2020050	0.0285	<0.0002	0.0297	<0.0002	<0.0002	0.0012	<0.0002	0.0003	<0.001	0.0004	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD257_210129	Normal	EM2101229	0.0436	<0.0002	0.0450	<0.0002	<0.0002	0.0014	0.0003	0.0003	<0.001	0.0014	0.0010	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 Apr 2021	0937_SD257_20210428	Normal	EM2107858	0.0456	0.0003	0.0492	<0.0002	<0.0002	0.0036	0.0005	0.0007	<0.001	0.0015	0.0016	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jul 2021	0937_SD257_210715	Normal	EM2113872-AB	0.0389	0.0002	0.0442	<0.0002	<0.0002	0.0053	0.0004	0.0004	<0.001	0.0003	0.0009	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD257_211118	Normal	EM2123080	0.0210	0.0008	0.0592	0.0004	0.0012	0.0382	0.0009	0.0002	<0.001	0.0003	0.0014	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Feb 2022	0937_SD257_220218	Normal	EM2202703	0.0571	0.0003	0.0638	0.0006	0.0006	0.0067	0.0007	0.0011	<0.001	0.0004	0.0012	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD257_220823	Normal	EM2216476	0.0156	<0.0002	0.0159	<0.0002	<0.0002	0.0003	<0.0002	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Nov 2023	0937_SD257_231120	Normal	EM2320952	0.0766	<0.0002	0.0793	<0.0002	<0.0002	0.0027	0.0006	0.0013	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD258	13 Oct 2016	SD258	Normal	EM1612198	0.0808	0.0008	0.0964	0.0006	0.0005	0.0156	0.0028	<0.0002	<0.001	<0.0002	0.0013	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Mar 2020	0937_SD258_20200318	Normal	EM2004711	0.0355	<0.0002	0.0363	<0.0002	<0.0002	0.0008	<0.0002	0.0012	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD258_20200615	Normal	EM2010514	0.178	0.0004	0.182	<0.0002	0.0002	0.0043	0.0009	0.0098	<0.001	0.0004	0.0011	0.0003	<0.0002	0.0002	0.0002	0.0005	<0.0002
	09 Nov 2020	0937_SD258_201109	Normal	EM2020050	0.0465	<0.0002	0.0483	<0.0002	<0.0002	0.0018	0.0003	0.0025	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	29 Jan 2021	0937_SD258_210129	Normal	EM2101229	0.0721	0.0004	0.0765	0.0002	<0.0002	0.0044	0.0007	0.0014	<0.001	0.0010	0.0012	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC110_210129	Field_D	EM2101229	0.0562	0.0003	0.0604	<0.0002	0.0002	0.0042	0.0005	0.0009	<0.001	0.0009	0.0012	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC210_210129	Interlab_D	770470	0.1	<0.005	0.1062	<0.005	<0.005	0.0062	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	20 Apr 2021	0937_SD258_20210420	Normal	EM2107085	0.0474	<0.0002	0.0510	<0.0002	<0.0002	0.0036	0.0003	0.0029	<0.001	0.0005	0.0007	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD258_210804	Normal	EM2115476	0.0446	0.0004	0.0482	<0.0002	0.0002	0.0036	0.0005	0.0003	<0.001	0.0005	0.0007	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD258_211118	Normal	EM2123080	0.0503	0.0010	0.0563	0.0003	0.0004	0.0060	0.0010	<0.0002	<0.001	0.0005	0.0007	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD258_220221	Normal	EM2203247	0.109	0.0005	0.115	0.0004	0.0004	0.0064	0.0006	0.001	<0.001	0.0006	0.0014	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC119_220221	Field_D	EM2203247	0.102	0.0005	0.108	0.0004	0.0003	0.0062	0.0006	0.0012	<0.001	0.0005	0.0013	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC219_220221	Interlab_D	866689	0.13	<0.005	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	<0.005	<0.005
	30 May 2022	0937_SD258_220530	Normal	EM2210316	0.0445	0.0003	0.0480	0.0002	<0.0002	0.0035	0.0005	0.0005	<0.001	0.0003	0.0006	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD258_220902	Normal	EM2217000	0.0659	0.0004	0.0711	<0.0002	0.0002	0.0052	0.0005	<0.0002	<0.001	0.0004	0.0007	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD258_221123	Normal	EM2223510	0.108	0.0004	0.113	<0.0002	0.0003	0.0051	0.0008	0.0011	<0.001	0.0002	0.0005	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD258_231116	Normal	EM2320952	0.0250	<0.0002	0.0275	0.0002	0.0002	0.0025	<0.0002	0.0004	<0.001	0.0004	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC113_231116	Field_D	EM2320952	0.0816	0.0004	0.0868	0.0002	0.0004	0.0052	0.0007	0.0013	<0.001	0.0005	0.0008	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC213_231116	Interlab_D	1048259	0.088	<0.005	0.0938	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SD259	13 Oct 2016	SD259	Normal	EM1612198	0.0234	<0.0002	0.0273	0.0002	0.0002	0.0039	0.0004	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Dec 2019	0937_SD259_191202	Normal	EM1920780	0.0930	<0.0002	0.0966	<0.0002	<0.0002	0.0036	0.0006	0.0031	<0.001	0.0009	0.0012	0.0004	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
		0937_QC105_191202	Field_D	EM1920780	0.0854	0.0002	0.0888	<0.0002	<0.0002	0.0034	0.0005	0.0036	<0.001	0.0010	0.0012	0.0004	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
		0937_QC205_191202	Interlab_D	EM1920780	0.0681	<0.0002	0.0703	<0.0002	<0.0002	0.0022	0.0004	0.0024	<0.001	0.0007	0.0010	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Mar 2020	0937_SD259_20200318	Normal	EM2004711	0.0543	0.0003	0.0569	<0.0002	<0.0002	0.0026	0.0005	0.0007	<0.001	0.0007	0.0007	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	15 Jun 2020	0937_SD259_200615	Normal	EM2010514	0.0587	<0.0002	0.0611	<0.0002	<0.0002	0.0024	0.0003	0.0032	<0.001	0.0004	0.0009	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	13 Nov 2020	0937_SD259_201109	Normal	EM2020050	0.0791	<0.0002	0.0817	<0.0002	<0.0002	0.0026	0.0004	0.0013	<0.001	<0.0002	0.0004	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD259_210129	Normal	EM2101229	0.0495	<0.0002	0.0517	<0.0002	<0.0002	0.0022	0.0002	0.0019	<0.001	0.0005	0.0009	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	20 Apr 2021	0937_SD259_20210420	Normal	EM2107085	0.0688	<0.0002	0.0721	0.0003	0.0002	0.0033	0.0004	0.0028	<0.001	0.0004	0.0008	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002
	05 Aug 2021	0937_SD259_210805	Normal	EM2115476	0.0202	<0.0002	0.0216	<0.0002	<0.0002	0.0014	<0.0002	0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD259_211118	Normal	EM2123080	0.0152	<0.0002	0.0162	<0.0002	<0.0002	0.0010	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD259_220221	Normal	EM2203247	0.0326	<0.0002	0.0356	<0.0002	<0.0002	0.003	0.0004	0.0006	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC120_220221	Field_D	EM2203247	0.0515	0.0002	0.0559	0.0003	0.0002	0.0044	0.0005	0.0011	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC220_220221	Interlab_D	866689	0.068	<0.005	0.068	<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
	30 May 2022	0937_SD259_220530	Normal	EM2210316	0.0531	<0.0002	0.0571	<0.0002	0.0002	0.0040	0.0007	0.0008	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Aug 2022	0937_SD259_220823	Normal	EM2216476	0.0116	<0.0002	0.0119	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD259_221123	Normal	EM2223510	0.0584	0.0004	0.0636	<0.0002	0.0002	0.0052	0.0008	0.0009	<0.001	0.0003	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD259_231116	Normal	EM2320952	0.0683	<0.0002	0.0710	<0.0002	<0.0002	0.0027	0.0003	0.0051	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC112_231116	Field_D	EM2320952	0.0334	<0.0002	0.0356	<0.0002	<0.0002	0.0022	<0.0002	0.0014	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC212_231116	Interlab_D	1048259	0.076	<0.005	0.076	<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
SD260	13 Oct 2016	SD260	Normal	EM1612198	0.0643	0.0006	0.0735	0.0008	0.0003	0.0092	0.002	<0.0002	<0.001	<0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QCA310	Field_D	EM1612198	0.0422	0.0004	0.0481	0.0005	0.0002	0.0059	0.0009	0.0003	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QCB311		EM1612198	0.0432	0.0005	0.0494	0.0004	0.0002	0.0062	0.0011	0.002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Nov 2019	0937_SD260_191122	Normal	EM1920034	0.226	0.0002	0.234	0.0003	0.0002	0.0079	0.0020	0.0058	<0.001	0.0005	0.0020	0.0004	<0.0002	<0.0002	<0.0002	0.0004	<0.0002
	18 Mar 2020	0937_SD260_20200318	Normal	EM2004711	0.141	<0.0002	0.145	<0.0002	<0.0002	0.0038	0.0006	0.0060	<0.001	0.0003	0.0010	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002
	15 Jun 2020	0937_SD260_20200615	Normal	EM2010514	0.101	0.0003	0.106	0.0003	0.0003	0.0046	0.0008	0.0064	<0.001	0.0005	0.0011	0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	09 Nov 2020	0937_SD260_200911	Normal	EM2020050	0.0601	0.0003	0.0632	<0.0002	0.0002	0.0031	0.0005	0.0008	<0.001	0.0002	0.0005	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Jan 2021	0937_SD260_210129	Normal	EM2101229	0.0634	0.0002	0.0676	0.0002	0.0003	0.0042	0.0004	0.0038	<0.001	0.0011	0.0014	0.0005	<0.0002	<0.0002	<0.0002	0.0002	<0.0002
	20 Apr 2021	0937_SD260_20210420	Normal	EM2107085	0.0355	<0.0002	0.0373	<0.0002	<0.0002	0.0018	0.0002	0.0016	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD260_210805	Normal	EM2115476	0.0026	<0.0002	0.0032	<0.0002	<0.0002	0.0006	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	18 Nov 2021	0937_SD260_211118	Normal	EM2123080	0.0135	<0.0002	0.0147	<0.0002	<0.0002	0.0012	<0.0002	<0.0002	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	21 Feb 2022	0937_SD260_220221	Normal	EM2203247	0.0819	0.0003	0.0883	0.0003	0.0003	0.0064	0.0007	0.0011	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	31 May 2022	0937_SD260_220530	Normal	EM2210316	0.0836	0.0005	0.0925	0.0004	0.0004	0.0089	0.0012	0.0008	<0.001	0.0003	0.0007	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Sep 2022	0937_SD260_220902	Normal	EM2217000	0.0139	<0.0002	0.0148	<0.0002	<0.0002	0.0009	<0.0002	<0.0002	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2022	0937_SD260_221123	Normal	EM2223510	0.0304	0.0002	0.0335	<0.0002	<0.0002	0.0031	0.0003	0.0004	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	16 Nov 2023	0937_SD260_231116	Normal	EM2320952	0.0762	0.0006	0.0838	0.0004	0.0005	0.0076	0.0011	0.0017	<0.001	0.0005	0.0010	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoate (PFOA)	Sum of PFHxS and PFOS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**																	
SD268	13 May 2016	SD002	Normal	EM1605449	0.0049	<0.0005	0.0052	<0.0002	<0.0005	0.0003	<0.001	<0.0002	<0.001	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	01 Jun 2016	OSD002	Normal	EM1606490	0.31	0.0008	0.3203	<0.0002	<0.0002	0.0103	0.0016	0.0026	<0.001	<0.0002	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		QCA122	Field_D	EM1606490	0.424	0.0006	0.4308	<0.0002	<0.0002	0.0068	0.0018	0.0023	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	26 Oct 2016	OSD002	Normal	EM1612984	0.18	0.0012	0.187	<0.0002	<0.0002	0.0071	0.0026	0.006	<0.001	<0.0002	0.0011	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
					-	-	0.1871	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28 Nov 2019	0937_SD02_191128	Normal	EM1920529-AC	0.17	0.0007	0.184	0.0004	0.0006	0.0145	0.0015	0.0031	<0.001	0.0002	0.0017	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Jun 2020	0937_SD002_20200623	Normal	EM2010693	0.0525	<0.0002	0.0555	<0.0002	<0.0002	0.0030	0.0004	<0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD268_201112	Normal	EM2020041	0.159	0.0004	0.166	<0.0002	0.0005	0.0067	0.0011	0.0008	<0.001	0.0003	0.0034	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD268_210202	Normal	EM2101558	0.0392	<0.0002	0.0411	<0.0002	<0.0002	0.0019	<0.0002	0.0021	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD268_20210429	Normal	EM2107856	0.293	0.0010	0.308	0.0004	0.0006	0.0154	0.0041	0.0061	<0.001	0.0002	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD268_210805	Normal	EM2115478	0.766	0.0013	0.798	0.0017	0.0033	0.0322	0.0037	0.0046	<0.002	0.0007	0.0041	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD268_211111	Normal	EM2123001	1.17	0.0007	1.18	<0.0002	0.0005	0.0148	0.0040	0.0230	<0.001	0.0002	0.0006	<0.0002	0.0002	0.0003	<0.0002	<0.0002	<0.0002
		0937_QC102_211111	Field_D	EM2123001	1.04	0.0006	1.05	0.0002	0.0005	0.0124	0.0036	0.0220	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC202_211111	Interlab_D	847843	2.5	<0.005	2.529	<0.005	<0.005	0.029	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	23 Feb 2022	0937_SD268_220223	Normal	EM2203197	0.264	0.0016	0.295	0.0018	0.0022	0.0313	0.0034	0.0072	<0.002	0.0025	0.0029	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	28 May 2022	0937_SD268_220528	Normal	EM2210255	0.598	0.0008	0.607	0.0006	0.0005	0.0086	0.0020	0.0064	<0.002	<0.0004	0.0010	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	01 Sep 2022	0937_SD268_220901	Normal	EM2216994-AD	1.97	0.0021	2.01	0.0021	0.0037	0.0379	0.0088	0.022	<0.001	0.0009	0.0039	0.0005	0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD268_231123	Normal	EM2320912	1.60	0.0049	1.62	0.0003	0.0004	0.0162	0.0186	0.0025	<0.001	0.0003	0.0013	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD270	26 Oct 2016	OSD004	Normal	EM1612984	0.302	0.0041	0.3268	0.0003	<0.0002	0.0248	<0.0002	<0.0002	<0.001	0.0008	0.0057	0.0011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
					-	-	0.327	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28 Nov 2019	0937_SD04_191128	Normal	EM1920529-AC	0.282	0.0009	0.288	0.0003	<0.0002	0.006	0.0019	0.0072	<0.001	0.0003	0.0018	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD004_20200319	Normal	EM2004707	0.458	0.0036	0.495	<0.0010	<0.0010	0.0366	0.0054	0.0071	<0.001	<0.0010	0.0024	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	23 Jun 2020	0937_SD004_200623	Normal	EM2010693	0.381	0.0011	0.390	0.0007	0.0007	0.0092	0.0036	<0.0002	<0.001	0.0004	0.0016	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD270_201112	Normal	EM2020041	0.0678	0.0008	0.0713	<0.0004	<0.0002	0.0035	0.0027	0.0011	<0.001	<0.0004	0.0005	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002
	02 Feb 2021	0937_SD270_210202	Normal	EM2101558	0.0307	<0.0002	0.0319	<0.0002	<0.0002	0.0012	<0.0002	0.0007	<0.001	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD270_20210429	Normal	EM2107856	0.228	0.0025	0.263	0.0008	0.0012	0.0348	0.0065	0.0025	<0.001	0.0005	0.0025	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	05 Aug 2021	0937_SD270_210805	Normal	EM2115478	0.752	<0.0004	0.763	<0.0004	0.0005	0.0112	0.0017	0.0101	<0.002	<0.0004	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD270_211111	Normal	EM2123001	0.520	<0.0002	0.524	<0.0002	<0.0002	0.0040	0.0011	0.0150	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC101_211111	Field_D	EM2123001	0.361	<0.0002	0.364	<0.0002	<0.0002	0.0030	0.0008	0.0108	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC201_211111	Interlab_D	847843	1.3	<0.005	1.3095	<0.005	<0.005	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	23 Feb 2022	0937_SD270_220223	Normal	EM2203197	0.0318	0.0002	0.0329	<0.0002	<0.0002	0.0011	0.0002	<0.0002	<0.001	<0.0002	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	28 May 2022	0937_SD270_220528	Normal	EM2210255	0.364	0.0009	0.373	<0.0003	<0.0003	0.0088	0.0032	0.0012	<0.002	<0.0003	0.0005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	01 Sep 2022	0937_SD270_220901	Normal	EM2216994-AD	0.148	<0.0002	0.156	0.0003	0.0005	0.008	0.0009	0.0028	<0.001	<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	23 Nov 2023	0937_SD270_231123	Normal	EM2320912	0.629	0.0025	0.640	0.0006	0.0006	0.0109	0.0082	0.0068	<0.001	0.0002	0.0012	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
SD276	26 Oct 2016	OSD010	Normal	EM1612993	0.0538	0.0003	0.0595	<0.0002	<0.0002	0.0057	<0.0002	<0.0002	<0.001	<0.0002	0.0016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	19 Mar 2020	0937_SD276_20200319	Normal	EM2004706	0.294	0.0012	0.305	<0.0010	<0.0010	0.0112	0.0035	<0.0010	<0.001	<0.0010	0.0017	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	18 Jun 2020	0937_SD276_200618	Normal	EM2010381	0.0364	0.0009	0.0477	<0.0002	0.0004	0.0113	0.0013	<0.0002	<0.001	0.0004	0.0042	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	12 Nov 2020	0937_SD276_201112	Normal	EM2020047	0.760	0.0018	0.767	<0.0002	<0.0002	0.0069	0.0050	0.0013	<0.001	<0.0002	0.0012	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	02 Feb 2021	0937_SD276_210202	Normal	EM2101562	0.0282	<0.0002	0.0312	<0.0002	<0.0002	0.0030	0.0003	<0.0002	<0.001	<0.0002	0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	29 Apr 2021	0937_SD276_20210429	Normal	EM2107855	0.0768	<0.0002	0.0801	<0.0002	<0.0002	0.0033	0.0006	0.0002	<0.001	<0.0002	0.0006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	04 Aug 2021	0937_SD276_210804	Normal	EM2115483	0.656	0.0017	0.679	<0.0004	0.0009	0.0227	0.0041	0.0019	<0.002	<0.0004	0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	11 Nov 2021	0937_SD276_211110	Normal	EM2123004	0.0753	<0.0002	0.0773	<0.0002	<0.0002	0.0020	0.0004	0.0011	<0.001	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
	22 Feb 2022	0937_SD276_220222	Normal	EM2203194	0.204	<0.0004	0.206	<0.0004	<0.0004	0.0024	0.0012	<0.0004	<0.002	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
	27 May 2022	0937_SD276_220527	Normal	EM2210252	0.238	<0.0003	0.242	<0.0003	<0.0003	0.0040	0.0012	0.0005	<0.002	<0.0003	0.0005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	31 Aug 2022	0937_SD276_220831	Normal	EM2216996	0.259	0.0008	0.274	0.0006	0.0012	0.0147	0.0019	0.0010	<0.001	0.0005	0.0031	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC117_220831	Field_D	EM2216996	0.637	0.0012	0.662	0.0009	0.0040	0.0245	0.0038	0.0059	<0.001	0.0009	0.0039	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
		0937_QC217_220831	Interlab_D	922406	0.12	<0.005	0.153	<0.005	<0.005	0.033	<0.005	<0.005	<0.005	<0.005	0.0059	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	21 Nov 2023	0937_SD276_231121	Normal	EM2320910	0.0245	0.0004	0.0255	<0.0002	<0.0002	0.0010	0.0003	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD001	01 Jun 2016	OSD001	Normal	EM1606490	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0479	-	-
	26 Oct 2016	OSD001	Normal	EM1612997	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	03 Dec 2019	0937_SD001_191203	Normal	EM1920790	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.116	-	-
	20 Mar 2020	0937_SD001_20200320	Normal	EM2004707	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0673	-	-
	23 Jun 2020	0937_SD001_20200623	Normal	EM2010693	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0232	-	-
	13 Nov 2020	0937_SD001_201113	Normal	EM2020041	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0697	-	-
	04 Feb 2021	0937_SD001_210204	Normal	EM2101558	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0255	<0.0005	<0.0005	0.136	-	-
	29 Apr 2021	0937_SD001_20210429	Normal	EM2107856	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0555	-	-
	06 Aug 2021	0937_SD001_210806	Normal	EM2115478	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0487	-	-
	24 Feb 2022	0937_SD001_220224	Normal	EM2203197	<0.001	<0.0004	<0.001	<0.001	<0.001	<0.001	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0795	-	-
	29 May 2022	0937_SD001_220529	Normal	EM2210255	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0613	-	-
		0937_QC215_220529	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.081	0.081	0.081
	31 May 2022	0937_QC115_220529	Field_D	EM2210255	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0735	-	-
	01 Sep 2022	0937_SD001_220901	Normal	EM2216994-AD	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0638	-	-
	21 Nov 2023	0937_SD001_231121	Normal	EM2320912	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0146	-	-
SD011	26 Oct 2016	OSD011	Normal	EM1612993	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Mar 2020	0937_SD011_20200325	Normal	EM2005034	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0128	-	-
	22 Jun 2020	0937_SD011_20200622	Normal	EM2010690	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0264	-	-
	13 Nov 2020	0937_SD011_201113	Normal	EM2020047	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0722	-	-
	02 Feb 2021	0937_SD011_210202	Normal	EM2101562	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.0953	<0.0005	<0.0005	0.104	-	-
	30 Apr 2021	0937_SD011_20210430	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0486	-	-
	06 Aug 2021	0937_SD011_210806	Normal	EM2115483	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0290	-	-
	10 Nov 2021	0937_SD011_211110	Normal	EM2123004	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0368	-	-
	23 Feb 2022	0937_SD011_220223	Normal	EM2203194	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0230	-	-
	27 May 2022	0937_SD011_220527	Normal	EM2210252	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0098	-	-
	22 Nov 2023	0937_SD011_231122	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0212	-	-
SD014	26 Oct 2016	OSD014	Normal	EM1612993	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Mar 2020	0937_SD014_20200325	Normal	EM2005034	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0635	-	-
	22 Jun 2020	0937_SD014_20200623	Normal	EM2010690	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0611	-	-
	13 Nov 2020	0937_SD014_201113	Normal	EM2020047	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0166	-	-
	02 Feb 2021	0937_SD014_210202	Normal	EM2101562	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.101	<0.0005	<0.0005	0.104	-	-
	30 Apr 2021	0937_SD014_20210430	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0081	-	-
	06 Aug 2021	0937_SD014_210806	Normal	EM2115483	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0944	-	-
	10 Nov 2021	0937_SD014_211110	Normal	EM2123004	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0156	-	-
	23 Feb 2022	0937_SD014_220223	Normal	EM2203194	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.0143	-	-
	27 May 2022	0937_SD014_220527	Normal	EM2210252	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0191	-	-
	22 Nov 2023	0937_SD014_231122	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0659	-	-
SD015	26 Oct 2016	OSD015	Normal	EM1612993	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Mar 2020	0937_SD015_20200325	Normal	EM2005034	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0095	-	-
	22 Jun 2020	0937_SD015_20200623	Normal	EM2010690	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0054	-	-
	13 Nov 2020	0937_SD015_201113	Normal	EM2020047	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0142	-	-
	02 Feb 2021	0937_SD015_210203	Normal	EM2101562	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.0945	<0.0005	<0.0005	0.103	-	-
	30 Apr 2021	0937_SD015_20210430	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0137	-	-
	23 Feb 2022	0937_SD015_220223	Normal	EM2203194	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0131	-	-
	27 May 2022	0937_SD015_220527	Normal	EM2210252	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	-	-
	22 Nov 2023	0937_SD015_231122	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0141	-	-

					Perfluorocarbons														
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD016	26 Oct 2016	OSD016	Normal	EM1612993	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
		QCA407	Field_D	EM1612868	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
		QCB408	Interlab_D	521935	<0.005	<0.01	<0.01	-	<0.01	-	-	-	<0.005	<0.01	<0.005	-	-	-	-
	25 Mar 2020	0937_SD016_20200325	Normal	EM2005034	<0.0006	0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.652	-	-
	22 Jun 2020	0937_SD016_20200622	Normal	EM2010690	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0555	-	-
	13 Nov 2020	0937_SD016_201113	Normal	EM2020047	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0305	-	-
	02 Feb 2021	0937_SD016_210202	Normal	EM2101562	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0437	-	-
	30 Apr 2021	0937_SD016_20210430	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0749	-	-
	22 Nov 2023	0937_SD016_231122	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.104	-	-
SD019	28 Oct 2016	OSD019	Normal	EM1612987	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	06 Dec 2016	OSD019	Normal	EM1614830	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0067	-	-
	16 Mar 2020	0937_SD019_20200316	Normal	EM2004774	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040	-	-
	18 Jun 2020	0937_SD019_200618	Normal	EM2010385	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0085	-	-
	12 Nov 2020	0937_SD019_201112	Normal	EM2020045	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0017	-	-
	03 Feb 2021	0937_SD019_210203	Normal	EM2101568	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0056	-	-
	21 Apr 2021	0937_SD019_20210421	Normal	EM2107090	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0139	-	-
	04 Aug 2021	0937_SD019_210804	Normal	EM2115485	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0089	-	-
	11 Nov 2021	0937_SD019_211111	Normal	EM2123008	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0087	-	-
	22 Feb 2022	0937_SD019_220222	Normal	EM2203193	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0080	-	-
	29 May 2022	0937_SD019_220529	Normal	EM2210260	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0020	-	-
	30 Aug 2022	0937_SD019_220830	Normal	EM2216989	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0143	-	-
	30 Nov 2022	0937_SD019_221130	Normal	EM2223922	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0081	-	-
	21 Nov 2023	0937_SD019_231121	Normal	EM2320917	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0009	-	-
SD030	26 Oct 2016	OSD030	Normal	EM1612981	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.103	-	-
	04 Dec 2019	0937_SD030_191204	Normal	EM1920788	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0469	-	-
	19 Mar 2020	0937_SD030_20200319	Normal	EM2004716	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.353	-	-
	19 Jun 2020	0937_SD030_200619	Normal	EM2010383	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0207	-	-
		0937_QC110_200619	Field_D	EM2010383	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0160	-	-
		0937_QC210_200619	Interlab_D	726765	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.021	0.021
	12 Nov 2020	0937_SD030_201112	Normal	EM2020042	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.226	-	-
	02 Feb 2021	0937_SD030_210202	Normal	EM2101566	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.235	-	-
	29 Apr 2021	0937_SD030_20210428	Normal	EM2107807	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0361	-	-
	05 Aug 2021	0937_SD030_210805	Normal	EM2115482	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.972	-	-
	11 Nov 2021	0937_SD030_211111	Normal	EM2123005	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.101	-	-
	23 Feb 2022	0937_SD030_220223	Normal	EM2203198	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.166	-	-
	29 May 2022	0937_SD030_220529	Normal	EM2210257	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0676	-	-
	02 Sep 2022	0937_SD030_220902	Normal	EM2216993	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.154	-	-
	30 Nov 2022	0937_SD030_221130	Normal	EM2223928	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.241	-	-
SD031	26 Oct 2016	OSD031	Normal	EM1612982	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	28 Nov 2019	0937_SD031_191128	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0008	-	-
	20 Mar 2020	0937_SD031_20200320	Normal	EM2004718	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0036	-	-
	23 Jun 2020	0937_SD031_200623	Normal	EM2010696	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0013	-	-
		0937_QC111_200623	Field_D	EM2010696	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0011	-	-
		O973_QC211_200623	Interlab_D	727519	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	<0.005	<0.005
	13 Nov 2020	0937_SD031_201113	Normal	EM2020044	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0009	-	-
	02 Feb 2021	0937_SD031_210202	Normal	EM2101565	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0205	<0.0005	<0.0005	0.0299	-	-
	29 Apr 2021	0937_SD031_20210429	Normal	EM2107809	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0120	-	-
	23 Nov 2023	0937_SD031_231123	Normal	EM2320915	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0032	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD032	26 Oct 2016	OSD032	Normal	EM1612982	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	28 Nov 2019	0937_SD032_191128	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0117	-	-
	20 Mar 2020	0937_SD032_20200320	Normal	EM2004718	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0421	-	-
	23 Jun 2020	0937_SD032_200623	Normal	EM2010696	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0397	-	-
	13 Nov 2020	0937_SD032_201113	Normal	EM2020044	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0111	-	-
	02 Feb 2021	0937_SD032_210202	Normal	EM2101565	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0184	-	-
	04 May 2021	0937_SD032_20210504	Normal	EM2108092	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0036	-	-
	06 Aug 2021	0937_SD032_210806	Normal	EM2115477	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0298	-	-
	18 Nov 2021	0937_SD032_211118	Normal	EM2123007	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	-	-
	24 Feb 2022	0937_SD032_220224	Normal	EM2203200	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0165	-	-
	31 May 2022	0937_SD032_220531	Normal	EM2210258	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0119	-	-
	01 Sep 2022	0937_SD032_220901	Normal	EM2216991	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.182	-	-
	30 Nov 2022	0937_SD032_221130	Normal	EM2223921	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	-	-
	23 Nov 2023	0937_SD032_231123	Normal	EM2320915	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040	-	-
SD033	27 Oct 2016	OSD033	Normal	EM1613005	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	0.0006	<0.0005	-	-	-
	03 Dec 2019	0937_SD033_191203	Normal	EM1920790	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0050	-	-
	19 Mar 2020	0937_SD033_20200319	Normal	EM2004707	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0243	-	-
		0937_QC103_20200319	Field_D	EM2004707	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0267	-	-
		0937_QC203_20200319	Interlab_D	711148	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.063	0.063	0.063
	19 Jun 2020	0937_SD033_20200619	Normal	EM2010382	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0863	-	-
		0937_QC108_20200619	Field_D	EM2010382	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0950	-	-
		0937_QC208_200619	Interlab_D	726765	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.045	0.045
	12 Nov 2020	0937_SD033_201112	Normal	EM2020041	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	0.0020	<0.0005	<0.0005	0.0786	-	-
	04 Feb 2021	0937_SD033_210204	Normal	EM2101558	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0567	-	-
	29 Apr 2021	0937_SD033_29210429	Normal	EM2107858	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0456	-	-
	05 Aug 2021	0937_SD033_210805	Normal	EM2115478	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0227	-	-
	11 Nov 2021	0937_SD033_211111	Normal	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0126	-	-
		0937_QC106_211111	Field_D	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0404	-	-
		0937_QC206_211111	Interlab_D	847843	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.021	0.021
	23 Feb 2022	0937_SD033_220223	Normal	EM2203197	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	0.0006	<0.0005	<0.0005	0.106	-	-
	31 May 2022	0937_SD033_220528	Normal	EM2210255	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0272	-	-
	01 Sep 2022	0937_SD033_220901	Normal	EM2216994-AD	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0449	-	-
		0937_QC118_220901	Field_D	EM2216994-AD	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0445	-	-
		0937_QC218_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0679	0.062	0.0679
	21 Nov 2023	0937_SD033_231121	Normal	EM2320912	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0450	-	-
SD034	26 Oct 2016	OSD034	Normal	EM1612997	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
		QCA415	Field_D	EM1612868	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
		QCB416	Interlab_D	521935	<0.005	<0.01	<0.01	-	<0.01	-	-	-	<0.005	<0.01	<0.005	-	-	-	-
	28 Nov 2019	0937_SD034_191128	Normal	EM1920529-AC	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.434	-	-
	20 Mar 2020	0937_SD034_20200320	Normal	EM2004707	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.113	-	-
	18 Jun 2020	0937_SD034_20200618	Normal	EM2010382	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.936	-	-
	13 Nov 2020	0937_SD034_201113	Normal	EM2020041	<0.0009	0.0005	<0.0009	<0.0009	<0.0009	<0.0009	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.889	-	-
	02 Feb 2021	0937_SD034_210202	Normal	EM2101558	<0.0011	0.0007	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.709	-	-
	29 Apr 2021	0937_SD034_20210429	Normal	EM2107856	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.312	-	-
	06 Aug 2021	0937_SD034_210806	Normal	EM2115478	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0291	-	-
	17 Nov 2021	0937_SD034_211117	Normal	EM2123001	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.771	-	-
	24 Feb 2022	0937_SD034_220224	Normal	EM2203197	<0.001	<0.0004	<0.001	<0.001	<0.001	<0.001	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.357	-	-
	31 May 2022	0937_SD034_220534	Normal	EM2210255	<0.0009	0.0006	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.345	-	-
	01 Sep 2022	0937_SD034_220901	Normal	EM2216994-AD	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0846	-	-
	21 Nov 2023	0937_SD034_231121	Normal	EM2320912	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0270	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD035	26 Oct 2016	OSD035	Normal	EM1612997	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	26 Mar 2020	0937_SD035_20200326	Normal	EM2005031	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0367	-	-
	23 Jun 2020	0937_SD035_20200623	Normal	EM2010693	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0415	-	-
	13 Nov 2020	0937_SD035_201113	Normal	EM2020041	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0750	-	-
	04 Feb 2021	0937_SD035_210204	Normal	EM2101558	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.153	-	-
	29 Apr 2021	0937_SD035_20210429	Normal	EM2107856	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0886	-	-
	24 Feb 2022	0937_SD035_220224	Normal	EM2203197	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0747	-	-
	29 May 2022	0937_SD035_220529	Normal	EM2210255	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0391	-	-
		0937_QC216_220529	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.093	0.093	0.093
	31 May 2022	0937_QC116_220529	Field_D	EM2210255	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0765	-	-
	21 Nov 2023	0937_SD035_231121	Normal	EM2320912	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.108	-	-
SD041	26 Oct 2016	OSD041	Normal	EM1612997	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	28 Nov 2019	0937_SD041_191128	Normal	EM1920529-AC	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.127	-	-
	20 Mar 2020	0937_SD041_20200320	Normal	EM2004707	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.514	-	-
	18 Jun 2020	0937_SD041_20200618	Normal	EM2010382	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.379	-	-
	13 Nov 2020	0937_SD041_201113	Normal	EM2020041	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0078	-	-
	02 Feb 2021	0937_SD041_210202	Normal	EM2101558	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0464	-	-
	29 Apr 2021	0937_SD041_20210429	Normal	EM2107856	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.223	-	-
	06 Aug 2021	0937_SD041_210806	Normal	EM2115478	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.180	-	-
	11 Nov 2021	0937_SD041_211111	Normal	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.126	-	-
	24 Feb 2022	0937_SD041_220224	Normal	EM2203197	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.422	-	-
	28 May 2022	0937_SD041_220528	Normal	EM2210255	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0514	-	-
	31 Aug 2022	0937_SD041_220831	Normal	EM2216994-AD	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.137	-	-
	21 Nov 2023	0937_SD041_231121	Normal	EM2320912	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0328	-	-
SD049	27 Oct 2016	OSD049	Normal	EM1613003	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	03 Dec 2019	0937_SD049_191203	Normal	EM1920780	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0015	-	-
	19 Mar 2020	0937_SD049	Normal	EM2004719	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0020	-	-
	18 Jun 2020	0937_SD049_20200618	Normal	EM2010386	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0064	-	-
	12 Nov 2020	0937_SD049_201112	Normal	EM2020046	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040	-	-
	01 Feb 2021	0937_SD049_210201	Normal	EM2101559	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0373	<0.0005	<0.0005	0.0404	-	-
	21 Apr 2021	0937_SD049_20210421	Normal	EM2107088	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0037	-	-
	06 Aug 2021	0937_SD049_210806	Normal	EM2115480	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0036	-	-
	17 Nov 2021	0937_QC219_211117	Interlab_D	842318	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.021	0.021
	18 Nov 2021	0937_SD049_211118	Normal	EM2123002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0236	-	-
		0937_QC119_211118	Field_D	EM2123002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0236	-	-
	22 Feb 2022	0937_SD049_220222	Normal	EM2203201	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0074	-	-
	31 May 2022	0937_SD049_220531	Normal	EM2210259	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0052	-	-
	29 Aug 2022	0937_SD049_220829	Normal	EM2216987	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0193	-	-
	01 Dec 2022	0937_SD049_221201	Normal	EM2223923	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0614	-	-
	23 Nov 2023	0937_SD049_231123	Normal	EM2320918	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD052	26 Oct 2016	OSD052	Normal	EM1612985	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	04 Dec 2019	0937_SD052_191204	Normal	EM1920785	<0.0005	0.0024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	2.48	-	-
	19 Mar 2020	0937_SD052_20200319	Normal	EM2004717	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.685	-	-
	23 Jun 2020	0937_SD052_200623	Normal	EM2010691	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.686	-	-
	12 Nov 2020	0937_SD052_201112	Normal	EM2020043	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.404	-	-
	04 Feb 2021	0937_SD052_210204	Normal	EM2101564	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0827	<0.0005	<0.0005	0.181	-	-
	29 Apr 2021	0937_SD052_20210429	Normal	EM2107806	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0649	-	-
	05 Aug 2021	0937_SD052_210805	Normal	EM2115484	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.39	-	-
	11 Nov 2021	0937_SD052_211111	Normal	EM2123006	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.356	-	-
	23 Feb 2022	0937_SD052_220223	Normal	EM2203199	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.280	-	-
	28 May 2022	0937_SD052_220528	Normal	EM2210256	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.233	-	-
	01 Sep 2022	0937_SD052_220901	Normal	EM2216992	<0.0005	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.842	-	-
	21 Nov 2023	0937_SD052_231121	Normal	EM2320914	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.252	-	-
SD082	25 Mar 2020	0937_SD082_20200325	Normal	EM2005034	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0049	-	-
	22 Jun 2020	0937_SD082_200623	Normal	EM2010690	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0161	-	-
	13 Nov 2020	0937_SD082_201113	Normal	EM2020047	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0080	-	-
	02 Feb 2021	0937_SD082_210202	Normal	EM2101562	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0217	<0.0005	<0.0005	0.0400	-	-
	30 Apr 2021	0937_SD082_20210430	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0037	-	-
	06 Aug 2021	0937_SD082_210806	Normal	EM2115483	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0194	-	-
	11 Nov 2021	0937_SD082_211111	Normal	EM2123004	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0023	-	-
	23 Feb 2022	0937_SD082_220223	Normal	EM2203194	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0054	-	-
	27 May 2022	0937_SD082_220527	Normal	EM2210252	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0063	-	-
	31 Aug 2022	0937_SD082_220831	Normal	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0047	-	-
		0937_QC114_220831	Field_D	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0035	-	-
		0937_QC214_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	<0.005	<0.005
	22 Nov 2023	0937_SD082_231122	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0024	-	-
SD088	19 Mar 2020	0937_SD088_20200319	Normal	EM2004706	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.347	-	-
	18 Jun 2020	0937_SD088_20200618	Normal	EM2010381	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.513	-	-
	12 Nov 2020	0937_SD088_201112	Normal	EM2020047	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.584	-	-
	02 Feb 2021	0937_SD088_210202	Normal	EM2101562	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.103	<0.0005	<0.0005	0.121	-	-
	29 Apr 2021	0937_SD088_20210429	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.167	-	-
	05 Aug 2021	0937_SD088_210805	Normal	EM2115483	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0006	<0.0005	<0.0005	0.0303	-	-
	11 Nov 2021	0937_SD088_211111	Normal	EM2123004	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.442	-	-
	22 Feb 2022	0937_SD088_2220222	Normal	EM2203194	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.299	-	-
	29 May 2022	0937_SD088_220529	Normal	EM2210252	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.111	-	-
	31 Aug 2022	0937_SD088_220831	Normal	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.192	-	-
		0937_QC115_220831	Field_D	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0862	-	-
		0937_QC215_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1368	0.13	0.1368
	21 Nov 2023	0937_SD088_231121	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0179	-	-
SD089	25 Mar 2020	0937_SD089_20200326	Normal	EM2005034	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.105	-	-
	22 Jun 2020	0937_SD089_20200623	Normal	EM2010690	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0623	-	-
	13 Nov 2020	0937_SD089_201113	Normal	EM2020047	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.158	-	-
	02 Feb 2021	0937_SD089_210202	Normal	EM2101562	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0244	<0.0005	<0.0005	0.0802	-	-
	30 Apr 2021	0937_SD089_20210430	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.332	-	-
	04 Aug 2021	0937_SD089_210804	Normal	EM2115483	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.132	-	-
	10 Nov 2021	0937_SD089_211110	Normal	EM2123004	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0048	-	-
	22 Feb 2022	0937_SD089_220222	Normal	EM2203194	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.150	-	-
	27 May 2022	0937_SD089_220527	Normal	EM2210252	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0141	-	-
	31 Aug 2022	0937_SD089_220831	Normal	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0130	-	-
		0937_QC116_220831	Field_D	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0080	-	-
		0937_QC216_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.016	0.016
	21 Nov 2023	0937_SD089_231121	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0165	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD201	13 Oct 2016	SD201	Normal	EM1612198	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	26 Nov 2019	0937_SD201_191126	Normal	EM1920529	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.231	-	-
	17 Mar 2020	0937_SD201_20200317	Normal	EM2004711	<0.0012	0.0006	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.267	-	-
	16 Jun 2020	0937_SD201_200616	Normal	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0287	-	-
	10 Nov 2020	0937_SD201_201110	Normal	EM2020050	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.220	-	-
	28 Jan 2021	0937_SD201_210128	Normal	EM2101229	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.561	-	-
		0937_QC103_210128	Field_D	EM2101229	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.303	-	-
		0937_QC203_210128	Interlab_D	770470	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.347	0.33	0.347
	22 Apr 2021	0937_SD201_20210422	Normal	EM2107085	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0181	-	-
	13 Jul 2021	0937_SD201_210713	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0603	-	-
	15 Nov 2021	0937_SD201_211109	Normal	EM2123080	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.189	-	-
	18 Feb 2022	0937_SD201_220218	Normal	EM2202703	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.209	-	-
	24 May 2022	0937_SD201_2205	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0540	-	-
	23 Aug 2022	0937_SD201_220823	Normal	EM2216476	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.296	-	-
	22 Nov 2022	0937_SD201_221122	Normal	EM2223510	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.209	-	-
	16 Nov 2023	0937_SD201_231116	Normal	EM2320952	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.193	-	-
SD206	13 Oct 2016	SD206	Normal	EM1612198	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	17 Mar 2020	0937_SD206_20200317	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0334	-	-
	16 Jun 2020	0937_SD206_20200616	Normal	EM2010514	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0469	-	-
	28 Jan 2021	0937_SD206_210128	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0016	-	-
	26 Apr 2021	0937_SD206_20210426	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0053	-	-
	13 Jul 2021	0937_SD206_210713	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0062	-	-
SD208	14 Oct 2016	SD208	Normal	EM1612198	<0.0005	0.0003	<0.0005	0.0014	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	21 Nov 2019	0937_SD208_191121	Normal	EM1920039	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0026	-	-
		0937_QC100_191121	Field_D	EM1920039	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0045	-	-
		0937_QC200_191121	Interlab_D	690346	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.079	0.065	0.079
	17 Mar 2020	0937_SD208_20200317	Normal	EM2004711	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	0.0199	-	-
	15 Jun 2020	0937_SD208_200615	Normal	EM2010514	<0.0005	0.0061	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0867	-	-
	10 Nov 2020	0937_SD208_201110	Normal	EM2020050	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0163	-	-
	28 Jan 2021	0937_SD208_210128	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0043	-	-
	28 Apr 2021	0937_SD208_20210428	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0035	-	-
	13 Jul 2021	0937_SD208_210713	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0227	-	-
	12 Nov 2021	0937_SD208_211112	Normal	EM2123080	<0.0010	0.0006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0480	-	-
	16 Feb 2022	0937_SD208_220216	Normal	EM2202703	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.0083	-	-
	25 May 2022	0937_SD208_220525	Normal	EM2210316	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0082	<0.0005	<0.0005	0.286	-	-
		0937_QC105_220525	Field_D	EM2210316	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0106	<0.0005	<0.0005	0.371	-	-
		0937_QC205_220525	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	0.012	<0.005	<0.005	0.3421	0.21	0.265
	23 Aug 2022	0937_SD208_220823	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0022	<0.0005	<0.0005	0.0050	-	-
	29 Nov 2022	0937_SD208_221124	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0087	<0.0005	<0.0005	0.0175	-	-
SD209	20 Nov 2019	0937_SD209_191120	Normal	EM1920039	<0.0125	0.218	<0.0125	<0.0125	<0.0125	<0.0125	<0.0050	<0.0050	<0.0050	0.0050	<0.0050	<0.0050	22.9	-	-
	17 Mar 2020	0937_SD209_20200317	Normal	EM2004711	<0.0012	0.121	<0.0012	<0.0012	<0.0012	<0.0012	0.0005	<0.0005	<0.0005	0.0026	0.0038	0.0007	3.17	-	-
	16 Jun 2020	0937_SD209_200616	Normal	EM2010514	0.0040	0.979	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	0.0095	0.0025	0.0023	14.0	-	-
	10 Nov 2020	0937_SD209_201110	Normal	EM2020050	<0.0005	0.0141	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0018	0.0005	<0.0005	0.478	-	-
	28 Jan 2021	0937_SD209_210128	Normal	EM2101229	<0.0006	0.0244	<0.0006	0.0007	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	0.0022	<0.0005	<0.0005	0.904	-	-
	22 Apr 2021	0937_SD209_20210422	Normal	EM2107085	<0.0009	0.0547	<0.0009	0.0018	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0011	<0.0005	<0.0005	0.991	-	-
	13 Jul 2021	0937_SD209_210713	Normal	EM2113872-AB	<0.0005	0.0029	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	0.131	-	-
	15 Nov 2021	0937_SD209_211115	Normal	EM2123080	<0.0005	0.0520	<0.0005	0.0013	<0.0005	<0.0005	<0.0002	0.0003	<0.0005	0.0018	0.0015	<0.0005	1.23	-	-
	22 Feb 2022	0937_SD209_220222	Normal	EM2203247	0.0024	0.0956	<0.001	<0.001	<0.001	<0.001	<0.0004	0.0007	<0.0005	0.0011	0.0042	0.0006	2.17	-	-
	17 Nov 2023	0937_SD209_231117	Normal	EM2320952	<0.0005	0.0399	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0005	<0.0005	<0.0005	1.22	-	-

					Perfluorocarbons														
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD216	20 Oct 2016	SD216	Normal	EM1612570	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD216_191125	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0352	-	-
	15 Jun 2020	0937_SD216_200615	Normal	EM2010514	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.107	-	-
	10 Nov 2020	0937_SD216_201110	Normal	EM2020050	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0256	-	-
		0937_QC103_201110	Field_D	EM2020050	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0283	-	-
		0937_QC203_201110	Interlab_D	757178	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.023	0.023
	28 Jan 2021	0937_SD216_210128	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.157	-	-
SD217	14 Oct 2016	SD217	Normal	EM1612198	<0.0005	0.0103	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	19 Mar 2020	0937_SD217_20200319	Normal	EM2004711	<0.0012	0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.586	-	-
	16 Jun 2020	0937_SD217_200616	Normal	EM2010514	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.348	-	-
	10 Nov 2020	0937_SD217_201110	Normal	EM2020050	<0.0005	0.0092	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.09	-	-
	29 Jan 2021	0937_SD217_210129	Normal	EM2101229	<0.0005	0.0268	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.757	-	-
	27 Apr 2021	0937_SD217_20210427	Normal	EM2107858	<0.0005	0.0074	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.686	-	-
	15 Jul 2021	0937_SD217_210715	Normal	EM2113872-AB	<0.0005	0.0060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.788	-	-
	16 Nov 2021	0937_SD217_211116	Normal	EM2123080	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.226	-	-
	15 Feb 2022	0937_SD217_220215	Normal	EM2202703	<0.0005	0.0068	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.618	-	-
	31 May 2022	0937_SD217_220530	Normal	EM2210316	<0.0005	0.0063	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.921	-	-
	26 Aug 2022	0937_SD217_220826	Normal	EM2216476	<0.0005	0.0040	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.606	-	-
	24 Nov 2022	0937_SD217_221124	Normal	EM2223510	<0.0005	0.0086	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.720	-	-
	17 Nov 2023	0937_SD217_231117	Normal	EM2320952	<0.0005	0.0163	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.19	-	-
SD223	12 Oct 2016	SD223	Normal	EM1612198	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	29 Nov 2019	0937_SD223_191129	Normal	EM1920529	<0.0005	0.0018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0430	-	-
	20 Mar 2020	0937_SD223_20200317	Normal	EM2004711	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0014	<0.0005	<0.0005	0.0268	-	-
	16 Jun 2020	0937_SD223_20200617	Normal	EM2010514	<0.0005	0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0023	<0.0005	<0.0005	0.0376	-	-
	10 Nov 2020	0937_SD223_201110	Normal	EM2020050	<0.0012	0.0011	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	0.0010	<0.0005	<0.0005	0.0462	-	-
		0937_QC106_201110	Field_D	EM2020050	<0.0012	0.0017	<0.0012	<0.0012	<0.0012	0.0018	<0.0005	<0.0005	<0.0005	0.0018	<0.0005	<0.0005	0.0701	-	-
		0937_QC206_201110	Interlab_D	757178	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.048	0.048
	28 Jan 2021	0937_SD223_210128	Normal	EM2101229	<0.0011	<0.0004	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0085	-	-
	28 Apr 2021	0937_SD223_20210428	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0107	-	-
	13 Jul 2021	0937_QC207_210713	Interlab_D	811260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.151	0.13	0.151
	14 Jul 2021	0937_QC107_210714	Field_D	EM2113872-AB	<0.0093	<0.0037	<0.0093	<0.0093	<0.0093	<0.0093	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.0514	-	-
	15 Jul 2021	0937_SD223_210715	Normal	EM2113872-AB	<0.0086	<0.0035	<0.0086	<0.0086	<0.0086	<0.0086	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.0511	-	-
	15 Nov 2021	0937_SD223_211115	Normal	EM2123080	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0496	-	-
	16 Feb 2022	0937_SD223_220217	Normal	EM2202703	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0134	<0.0005	<0.0005	0.0493	-	-
	25 May 2022	0937_SD223_220525	Normal	EM2210316	<0.0009	0.0005	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0419	<0.0005	<0.0005	0.102	-	-
	24 Aug 2022	0937_SD223_220824	Normal	EM2216476	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0568	-	-
	16 Nov 2023	0937_SD223_231116	Normal	EM2320952	<0.0009	0.0012	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	0.0398	<0.0005	<0.0005	0.0751	-	-
SD226	13 Oct 2016	SD226	Normal	EM1612198	<0.0005	0.0366	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD226_191125	Normal	EM1920529	<0.0005	0.0272	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.724	-	-
	17 Mar 2020	0937_SD226_20200317	Normal	EM2004711	<0.0012	0.0206	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.840	-	-
	16 Jun 2020	0937_SD226_20200616	Normal	EM2010514	<0.0005	0.0238	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.472	-	-
	10 Nov 2020	0937_SD226_201110	Normal	EM2020050	<0.0005	0.0193	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.249	-	-
	28 Jan 2021	0937_SD226_210128	Normal	EM2101229	<0.0005	0.0180	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.604	-	-
	28 Apr 2021	0937_SD226_20210428	Normal	EM2107858	<0.0005	0.0124	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.522	-	-
	14 Jul 2021	0937_SD226_210714	Normal	EM2113872-AB	<0.0005	0.0096	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.423	-	-
	12 Nov 2021	0937_SD226_2111012	Normal	EM2123080	<0.0005	0.0117	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.358	-	-
	22 Feb 2022	0937_SD226_220222	Normal	EM2203247	<0.0005	0.011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.432	-	-
	26 May 2022	0937_SD226_220525	Normal	EM2210316	<0.0005	0.0151	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.831	-	-
	23 Aug 2022	0937_SD226_220823	Normal	EM2216476	<0.0005	0.0076	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.493	-	-
	23 Nov 2022	0937_SD226_221123	Normal	EM2223510	<0.0005	0.0198	0.0006	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.420	-	-
	17 Nov 2023	0937_SD226_231117	Normal	EM2320952	<0.0005	0.0196	0.0008	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.454	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD227	14 Oct 2016	SD227	Normal	EM1612198	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD227_191125	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0020	-	-
	17 Mar 2020	0937_SD227_20200317	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0022	-	-
	16 Jun 2020	0937_SD227_200616	Normal	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0044	-	-
	10 Nov 2020	0937_SD227_201110	Normal	EM2020050	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0102	-	-
	28 Jan 2021	0937_SD227_210128	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0048	-	-
	28 Apr 2021	0937_ SD227_20210428	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0072	-	-
	14 Jul 2021	0937_SD227_210714	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0040	-	-
		0937_QC112_210714	Field_D	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0026	-	-
		0937_QC212_210714	Interlab_D	811260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	<0.005	<0.005
	16 Nov 2021	0937_SD227_211116	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0078	-	-
	21 Feb 2022	0937_SD227_220221	Normal	EM2203247	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0174	-	-
	25 May 2022	0937_SD227_220525	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0049	-	-
		0937_QC111_220525	Field_D	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0038	-	-
		0937_QC211_220525	Interlab_D	893740	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	<0.005	<0.005
	24 Aug 2022	0937_SD227_220824	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0113	-	-
	24 Nov 2022	0937_SD227_221124	Normal	EM2223510	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0037	-	-
	16 Nov 2023	0937_SD227_231116	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0053	-	-
		0937_QC116_231116	Field_D	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0050	-	-
		0937_QC216_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	<0.005	<0.005
SD230	13 Oct 2016	SD230	Normal	EM1612198	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD230_191125	Normal	EM1920529	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0091	-	-
	18 Mar 2020	0937_SD230_20200318	Normal	EM2004711	<0.0005	0.0016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0506	-	-
	17 Jun 2020	0937_SD230_200617	Normal	EM2010514	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.128	-	-
	11 Nov 2020	0937_SD230_201111	Normal	EM2020050	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0250	-	-
	01 Feb 2021	0937_SD230_210201	Normal	EM2101575	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0286	-	-
	30 Apr 2021	0937_ SD230_20210427	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0143	-	-
	15 Jul 2021	0937_SD230_210715	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0408	-	-
	12 Nov 2021	0937_SD230_211112	Normal	EM2123080	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0734	-	-
	18 Feb 2022	0937_SD230_220218	Normal	EM2202703	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0023	<0.0005	<0.0005	0.078	-	-
		0937_QC114_220218	Field_D	EM2202703	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.0848	-	-
		0937_QC214_220218	Interlab_D	864735	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0766	0.07	0.07
	30 May 2022	0937_SD230_220530	Normal	EM2210316	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0661	-	-
	23 Aug 2022	0937_SD230_220823	Normal	EM2216476	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0468	-	-
	29 Nov 2022	0937_SD230_221129	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0019	<0.0005	<0.0005	0.0452	-	-
	15 Nov 2023	0937_SD230_231115	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0028	<0.0005	<0.0005	0.0203	-	-
		0937_QC106_231115	Field_D	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.0217	-	-
		0937_QC206_231115	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.016	0.016
SD231	13 Oct 2016	SD231	Normal	EM1612198	<0.0005	0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	26 Nov 2019	0937_SD231_191126	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0289	-	-
	17 Mar 2020	0937_SD231_20200317	Normal	EM2004711	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0847	-	-
	16 Jun 2020	0937_SD231_200616	Normal	EM2010514	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.300	-	-
	10 Nov 2020	0937_SD231_201110	Normal	EM2020050	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.192	-	-
	29 Jan 2021	0937_SD231_210129	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0678	-	-
		0937_QC108_210129	Field_D	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0803	-	-
		0937_QC208_210128	Interlab_D	770470	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.364	0.35	0.364
	26 Apr 2021	0937_ SD231_20210426	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.193	-	-
	15 Jul 2021	0937_SD231_210715	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.137	-	-
	12 Nov 2021	0937_SD231_211112	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0415	-	-
	18 Feb 2022	0937_SD231_220218	Normal	EM2202703	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.168	-	-
		0937_QC117_220218	Field_D	EM2202703	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.194	-	-
		0937_QC217_220218	Interlab_D	864735	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.266	0.24	0.266
	26 May 2022	0937_SD231_220526	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0843	-	-
	23 Aug 2022	0937_SD231_220823	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0137	-	-
	29 Nov 2022	0937_SD231_221128	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.102	-	-
	20 Nov 2023	0937_SD231_231120	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0728	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD233	13 Oct 2016	SD233	Normal	EM1612198	<0.0006	0.0013	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	26 Nov 2019	0937_SD233_191126	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0349	-	-
	26 Mar 2020	0937_SD233_20209326	Normal	EM2005033	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0795	-	-
	16 Jun 2020	0937_SD233_200616	Normal	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0487	-	-
	23 Jun 2020	0937_SD233_200623	Normal	EM2010697	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0240	-	-
	10 Nov 2020	0937_SD233_201110	Normal	EM2020050	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0759	-	-
	28 Jan 2021	0937_SD233_210128	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0449	-	-
	26 Apr 2021	0937_SD233_20210426	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0500	-	-
	15 Jul 2021	0937_SD233_210715	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0936	-	-
	15 Nov 2021	0937_SD233_211115	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0488	-	-
		0937_QC111_211115	Field_D	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0571	-	-
		0937_QC211_211115	Interlab_D	842318	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.106	0.087	0.106
	17 Feb 2022	0937_SD233_220216	Normal	EM2202703	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0859	-	-
	26 May 2022	0937_SD233_220526	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0397	-	-
	25 Aug 2022	0937_SD233_220825	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0312	-	-
	24 Nov 2022	0937_SD233_221124	Normal	EM2223510	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.138	-	-
	16 Nov 2023	0937_SD233_231116	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0551	-	-
SD239	13 Oct 2016	SD239	Normal	EM1612198	<0.0005	0.0182	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0044	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	26 Nov 2019	0937_SD239_191126	Normal	EM1920529	<0.0005	0.0064	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0162	<0.0005	<0.0005	0.229	-	-
	17 Mar 2020	0937_SD239_20200317	Normal	EM2004711	<0.0012	<0.0005	<0.0012	<0.0012	<0.0012	<0.0012	<0.0005	<0.0005	<0.0005	0.0017	<0.0005	<0.0005	5.04	-	-
	16 Jun 2020	0937_SD239_20200616	Normal	EM2010514	0.0017	0.0050	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0716	0.0010	<0.0005	0.302	-	-
	10 Nov 2020	0937_SD239_201110	Normal	EM2020050	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	2.90	-	-
	28 Jan 2021	0937_SD239_210128	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0495	-	-
	26 Apr 2021	0937_QC104_20210426	Field_D	EM2107858	<0.0005	0.0028	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.116	-	-
		QC204_20210426	Interlab_D	792537	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1073	0.098	0.098
	30 Apr 2021	0937_SD239_20210426	Normal	EM2107858	<0.0005	0.0032	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.0876	-	-
	15 Jul 2021	0937_SD239_210715	Normal	EM2113872-AB	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0260	-	-
	12 Nov 2021	0937_SD239_211112	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0016	<0.0005	<0.0005	0.638	-	-
	17 Feb 2022	0937_SD239_220217	Normal	EM2202703	<0.0005	0.006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.007	<0.0005	<0.0005	0.64	-	-
	26 May 2022	0937_SD239_220526	Normal	EM2210316	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.134	-	-
	23 Aug 2022	0937_SD239_220823	Normal	EM2216476	<0.0005	0.0022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.141	-	-
	24 Nov 2022	0937_SD239_221124	Normal	EM2223510	<0.0005	0.0083	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0012	<0.0005	<0.0005	0.196	-	-
	17 Nov 2023	0937_SD239_231117	Normal	EM2320952	<0.0005	0.0078	0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.118	-	-
SD242	12 Oct 2016	SD242	Normal	EM1612198	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD242_191125	Normal	EM1920529	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.361	-	-
	17 Mar 2020	0937_SD242_20200317	Normal	EM2004711	<0.0005	0.0018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.330	-	-
	16 Jun 2020	0937_SD242_2020061	Normal	EM2010514	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.375	-	-
	23 Jun 2020	0937_SD242_200623	Normal	EM2010697	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.495	-	-
	10 Nov 2020	0937_SD242_201110	Normal	EM2020050	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.425	-	-
	28 Jan 2021	0937_SD242_210128	Normal	EM2101229	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.243	-	-
	28 Apr 2021	0937_SD242_20210428	Normal	EM2107858	<0.0005	0.0018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.596	-	-
	14 Jul 2021	0937_SD242_210714	Normal	EM2113872-AB	<0.0005	0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.133	-	-
		0937_QC110_210714	Field_D	EM2113872-AB	<0.0009	0.0011	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.142	-	-
		0937_QC210_210714	Interlab_D	811260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.13	0.13	0.13
	12 Nov 2021	0937_SD242_211112	Normal	EM2123080	<0.0005	0.0020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.189	-	-
	18 Feb 2022	0937_SD242_220218	Normal	EM2202703	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.2	-	-
	25 May 2022	0937_SD242_220525	Normal	EM2210316	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.223	-	-
	24 Aug 2022	0937_SD242_220824	Normal	EM2216476	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0782	-	-
	23 Nov 2022	0937_SD242_221123	Normal	EM2223510	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.364	-	-
	16 Nov 2023	0937_SD242_231116	Normal	EM2320952	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0574	-	-
		0937_QC111_231116	Field_D	EM2320952	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0740	-	-
		0937_QC211_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.068	0.068	0.068

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD246	12 Oct 2016	SD246	Normal	EM1612198	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD246_191125	Normal	EM1920529	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0907	-	-
	18 Mar 2020	0937_SD246_20200318	Normal	EM2004711	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0499	-	-
	17 Jun 2020	0937_SD246_200617	Normal	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0391	-	-
	13 Nov 2020	0937_SD246_201111	Normal	EM2020050	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.131	-	-
	01 Feb 2021	0937_SD246_210201	Normal	EM2101575	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.118	-	-
	27 Apr 2021	0937_SD246_20210427	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0750	-	-
		0937_QC106_20210427	Field_D	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0674	-	-
		QC206_20210427	Interlab_D	792537	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1472	0.14	0.1472
	04 Aug 2021	0937_SD246_210804	Normal	EM2115476	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0761	-	-
		0937_QC124_210804	Field_D	EM2115476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0884	-	-
		0937_QC224_210804	Interlab_D	815502	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1033	0.096	0.1033
	12 Nov 2021	0937_SD246_211112	Normal	EM2123080	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0594	-	-
	18 Feb 2022	0937_SD246_220218	Normal	EM2202703	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.112	-	-
		0937_QC113_220218	Field_D	EM2202703	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0995	-	-
		0937_QC213_220218	Interlab_D	864735	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0982	0.091	0.0982
	30 May 2022	0937_SD246_220530	Normal	EM2210316	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0758	-	-
	23 Aug 2022	0937_SD246_220823	Normal	EM2216476	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0926	-	-
	29 Nov 2022	0937_SD246_221129	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0899	-	-
	15 Nov 2023	0937_SD246_231115	Normal	EM2320952	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0055	<0.0005	<0.0005	0.0977	-	-
SD247	13 Oct 2016	SD247	Normal	EM1612198	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	25 Nov 2019	0937_SD247_191125	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0049	-	-
	20 Mar 2020	0937_SD247_20200320	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0149	-	-
		0937_QC105_20200320	Field_D	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0210	-	-
		0937_QC205_20200320	Interlab_D	711148	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.036	0.036
	17 Jun 2020	0937_SD247_200617	Normal	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0076	-	-
		0937_QC104_200617	Field_D	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0047	-	-
		0937_QC204_200617	Interlab_D	726765	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.013	0.013
	09 Nov 2020	0937_SD247_201109	Normal	EM2020050	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0123	-	-
	27 Jan 2021	0937_SD247_210127	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0033	-	-
	20 Apr 2021	0937_ SD247_20210420	Normal	EM2107085	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0077	-	-
	15 Jul 2021	0937_SD247_210715	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0050	-	-
	17 Nov 2021	0937_SD247_211117	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0057	-	-
		0937_QC117_211117	Field_D	EM2123080	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0565	-	-
		0937_QC217_211117	Interlab_D	842318	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.018	0.018
	18 Feb 2022	0937_SD247_220218	Normal	EM2202703	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0017	<0.0005	<0.0005	0.0187	-	-
	31 May 2022	0937_SD247_220530	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0039	<0.0005	<0.0005	0.0229	-	-
	25 Aug 2022	0937_SD247_220825	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0543	-	-
	15 Nov 2023	0937_SD247_231115	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0032	<0.0005	<0.0005	0.0139	-	-
SD249	13 Oct 2016	SD249	Normal	EM1612198	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	27 Nov 2019	0937_SD249_191127	Normal	EM1920529	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0218	-	-
	20 Mar 2020	0937_SD249_20200320	Normal	EM2004711	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0213	-	-
	17 Jun 2020	0937_SD249_20200617	Normal	EM2010514	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0043	-	-
	12 Nov 2020	0937_SD249_201112	Normal	EM2020050	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0301	-	-
	03 Feb 2021	0937_SD249_210203	Normal	EM2101575	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0121	-	-
	29 Apr 2021	0937_SD249_20210429	Normal	EM2107858	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0106	-	-
	15 Jul 2021	0937_SD249_210715	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0154	-	-
	17 Nov 2021	0937_SD249_211117	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0153	-	-
	21 Feb 2022	0937_SD249_220221	Normal	EM2203247	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.015	-	-
	30 May 2022	0937_SD249_220530	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0176	-	-
	02 Sep 2022	0937_SD249_220902	Normal	EM2217000	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0284	-	-
	29 Nov 2022	0937_SD249_221129	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0035	<0.0005	<0.0005	0.0306	-	-
	15 Nov 2023	0937_SD249_231115	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0033	<0.0005	<0.0005	0.0301	-	-

					Perfluorocarbons														
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD251	13 Oct 2016	SD251	Normal	EM1612198	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	02 Dec 2019	0937_SD251_191202	Normal	EM1920780	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0480	-	-
		0937_QC106_191202	Field_D	EM1920780	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0019	<0.0005	<0.0005	0.105	-	-
		0937_QC206_191203	Interlab_D	EM1920780	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0334	-	-
	20 Mar 2020	0937_SD251_20200320	Normal	EM2004711	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0621	-	-
	17 Jun 2020	0937_SD251_200617	Normal	EM2010514	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0289	-	-
	12 Nov 2020	0937_SD251_201112	Normal	EM2020050	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0089	<0.0005	<0.0005	0.149	-	-
	29 Jan 2021	0937_SD251_210129	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0139	-	-
	20 Apr 2021	0937_SD251_20210420	Normal	EM2107085	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	0.0863	-	-
	05 Aug 2021	0937_SD251_210805	Normal	EM2115476	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.0850	-	-
	18 Nov 2021	0937_SD251_211118	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0232	-	-
	21 Feb 2022	0937_SD251_220221	Normal	EM2203247	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0045	-	-
	31 May 2022	0937_SD251_220530	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0105	-	-
	23 Aug 2022	0937_SD251_220823	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0067	-	-
	30 Nov 2022	0937_SD251_221130	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0252	-	-
	15 Nov 2023	0937_SD251_231115	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0441	-	-
SD256	13 Oct 2016	SD256	Normal	EM1612198	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	22 Nov 2019	0937_SD256_191122	Normal	EM1920034	<0.0005	0.0035	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0468	<0.0005	<0.0005	0.397	-	-
	17 Mar 2020	0937_SD256_20200317	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.42	-	-
	16 Jun 2020	0937_SD256_20200616	Normal	EM2010514	<0.0005	0.0036	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0042	<0.0005	<0.0005	0.155	-	-
	10 Nov 2020	0937_SD256_201110	Normal	EM2020050	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.0508	-	-
		0937_QC205_201110	Interlab_D	757178	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.064	0.064	0.064
	28 Jan 2021	0937_SD256_210128	Normal	EM2101229	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0010	<0.0005	<0.0005	0.108	-	-
	26 Apr 2021	0937_SD256_20210426	Normal	EM2107858	<0.0005	0.0016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.123	-	-
		0937_QC103_20210426	Field_D	EM2107858	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.156	-	-
		QC203_20210426	Interlab_D	792537	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1284	0.12	0.12
	14 Jul 2021	0937_SD256_210714	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0158	-	-
		0937_QC116_210714	Field_D	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0118	-	-
		0937_QC216_210714	Interlab_D	811260	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	<0.05	0.018	0.018
	12 Nov 2021	0937_SD256_211112	Normal	EM2123080	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0255	-	-
	17 Feb 2022	0937_SD256_220217	Normal	EM2202703	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0178	-	-
	26 May 2022	0937_SD256_220526	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.230	-	-
	24 Aug 2022	0937_SD256_220824	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0696	-	-
	28 Nov 2022	0937-QC211-221128	Interlab_D	946451	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0532	0.048	0.0532
	29 Nov 2022	0937_SD256_221128	Normal	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0296	-	-
		0937_QC111_221128	Field_D	EM2223972	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0415	-	-
	20 Nov 2023	0937_SD256_231120	Normal	EM2320952	<0.0005	0.0010	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0744	-	-
SD257	13 Oct 2016	SD257	Normal	EM1612198	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	02 Dec 2019	0937_SD257_191202	Normal	EM1920780	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0519	-	-
		0937_QC107_191202	Field_D	EM1920780	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.124	-	-
		0937_QC207_191202	Interlab_D	EM1920780	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0398	-	-
	17 Mar 2020	0937_SD257_20200317	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0232	-	-
	17 Jun 2020	0937_SD257_20200617	Normal	EM2010514	<0.0005	0.0034	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0073	<0.0005	<0.0005	0.230	-	-
	11 Nov 2020	0937_SD257_201111	Normal	EM2020050	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0052	<0.0005	<0.0005	0.0360	-	-
	29 Jan 2021	0937_SD257_210129	Normal	EM2101229	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0491	-	-
	28 Apr 2021	0937_SD257_20210428	Normal	EM2107858	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0548	-	-
	15 Jul 2021	0937_SD257_210715	Normal	EM2113872-AB	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0466	-	-
	18 Nov 2021	0937_SD257_211118	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0649	-	-
	18 Feb 2022	0937_SD257_220218	Normal	EM2202703	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0691	-	-
	23 Aug 2022	0937_SD257_220823	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0161	-	-
	20 Nov 2023	0937_SD257_231120	Normal	EM2320952	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0831	-	-

					Perfluorocarbons														
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	**Date**	**Field ID**	**Sample Type**	**Lab Report Number**															
SD258	13 Oct 2016	SD258	Normal	EM1612198	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	20 Mar 2020	0937_SD258_20200318	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0379	-	-
	15 Jun 2020	0937_SD258_20200615	Normal	EM2010514	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.200	-	-
	09 Nov 2020	0937_SD258_201109	Normal	EM2020050	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0530	-	-
	29 Jan 2021	0937_SD258_210129	Normal	EM2101229	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0824	-	-
		0937_QC110_210129	Field_D	EM2101229	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0652	-	-
		0937_QC210_210129	Interlab_D	770470	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1062	0.1	0.1062
	20 Apr 2021	0937_SD258_20210420	Normal	EM2107085	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0561	-	-
	05 Aug 2021	0937_SD258_210804	Normal	EM2115476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0513	-	-
	18 Nov 2021	0937_SD258_211118	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0605	-	-
	21 Feb 2022	0937_SD258_220221	Normal	EM2203247	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.121	-	-
		0937_QC119_220221	Field_D	EM2203247	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.114	-	-
		0937_QC219_220221	Interlab_D	866689	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.13	0.13	0.13
	30 May 2022	0937_SD258_220530	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0506	-	-
	02 Sep 2022	0937_SD258_220902	Normal	EM2217000	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0735	-	-
	23 Nov 2022	0937_SD258_221123	Normal	EM2223510	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.117	-	-
	16 Nov 2023	0937_SD258_231116	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0293	-	-
		0937_QC113_231116	Field_D	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0920	-	-
		0937_QC213_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.0938	0.088	0.0938
SD259	13 Oct 2016	SD259	Normal	EM1612198	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	02 Dec 2019	0937_SD259_191202	Normal	EM1920780	<0.0005	0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0021	<0.0005	<0.0005	0.106	-	-
		0937_QC105_191202	Field_D	EM1920780	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	0.0981	-	-
		0937_QC205_191202	Interlab_D	EM1920780	<0.0005	0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0011	<0.0005	<0.0005	0.0769	-	-
	18 Mar 2020	0937_SD259_20200318	Normal	EM2004711	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0601	-	-
	15 Jun 2020	0937_SD259_200615	Normal	EM2010514	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0013	<0.0005	<0.0005	0.0682	-	-
	13 Nov 2020	0937_SD259_201109	Normal	EM2020050	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0843	-	-
	29 Jan 2021	0937_SD259_210129	Normal	EM2101229	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0558	-	-
	20 Apr 2021	0937_SD259_20210420	Normal	EM2107085	<0.0005	0.0011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0790	-	-
	05 Aug 2021	0937_SD259_210805	Normal	EM2115476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0218	-	-
	18 Nov 2021	0937_SD259_211118	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0162	-	-
	21 Feb 2022	0937_SD259_220221	Normal	EM2203247	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0369	-	-
		0937_QC120_220221	Field_D	EM2203247	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0589	-	-
		0937_QC220_220221	Interlab_D	866689	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.068	0.068	0.068
	30 May 2022	0937_SD259_220530	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0592	-	-
	23 Aug 2022	0937_SD259_220823	Normal	EM2216476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0119	-	-
	23 Nov 2022	0937_SD259_221123	Normal	EM2223510	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0669	-	-
	16 Nov 2023	0937_SD259_231116	Normal	EM2320952	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0771	-	-
		0937_QC112_231116	Field_D	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0373	-	-
		0937_QC212_231116	Interlab_D	1048259	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.076	0.076	0.076
SD260	13 Oct 2016	SD260	Normal	EM1612198	<0.0005	0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
		QCA310	Field_D	EM1612198	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
		QCB311		EM1612198	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	22 Nov 2019	0937_SD260_191122	Normal	EM1920034	<0.0005	0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0082	<0.0005	<0.0005	0.255	-	-
	18 Mar 2020	0937_SD260_20200318	Normal	EM2004711	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.154	-	-
	15 Jun 2020	0937_SD260_20200615	Normal	EM2010514	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0029	<0.0005	<0.0005	0.120	-	-
	09 Nov 2020	0937_SD260_200911	Normal	EM2020050	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0006	<0.0005	<0.0005	0.0669	-	-
	29 Jan 2021	0937_SD260_210129	Normal	EM2101229	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0762	-	-
	20 Apr 2021	0937_SD260_20210420	Normal	EM2107085	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0397	-	-
	05 Aug 2021	0937_SD260_210805	Normal	EM2115476	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0032	-	-
	18 Nov 2021	0937_SD260_211118	Normal	EM2123080	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0150	-	-
	21 Feb 2022	0937_SD260_220221	Normal	EM2203247	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.092	-	-
	31 May 2022	0937_SD260_220530	Normal	EM2210316	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0008	<0.0005	<0.0005	0.0979	-	-
	02 Sep 2022	0937_SD260_220902	Normal	EM2217000	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0150	-	-
	23 Nov 2022	0937_SD260_221123	Normal	EM2223510	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0347	-	-
	16 Nov 2023	0937_SD260_231116	Normal	EM2320952	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0902	-	-

					Perfluorocarbons															
					Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FtS)	8:2 Fluorotelomer sulfonate (8:2 FtS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Sum of PFAS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LOR					0.0005	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0005	0.0005	0.0002	0.0002	0.005	0.005
Location Code	Date	Field ID	Sample Type	Lab Report Number															
SD268	13 May 2016	SD002	Normal	EM1605449	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0002	<0.005	<0.001	<0.0002	-	-	-
	01 Jun 2016	OSD002	Normal	EM1606490	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.328	-	-
		QCA122	Field_D	EM1606490	<0.0005	0.0023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.438	-	-
	26 Oct 2016	OSD002	Normal	EM1612984	<0.0005	0.0066	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.205	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28 Nov 2019	0937_SD02_191128	Normal	EM1920529-AC	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.193	-	-
	23 Jun 2020	0937_SD002_20200623	Normal	EM2010693	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0567	-	-
	12 Nov 2020	0937_SD268_201112	Normal	EM2020041	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.172	-	-
	02 Feb 2021	0937_SD268_210202	Normal	EM2101558	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0434	-	-
	29 Apr 2021	0937_SD268_20210429	Normal	EM2107856	<0.0005	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.322	-	-
	05 Aug 2021	0937_SD268_210805	Normal	EM2115478	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.818	-	-
	11 Nov 2021	0937_SD268_211111	Normal	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.21	-	-
		0937_QC102_211111	Field_D	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.08	-	-
		0937_QC202_211111	Interlab_D	847843	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	2.543	2.5	2.529
	23 Feb 2022	0937_SD268_220223	Normal	EM2203197	<0.0011	0.001	<0.0011	<0.0011	<0.0011	<0.0011	<0.0004	<0.0004	<0.0005	0.0022	<0.0005	<0.0005	0.321	-	-
	28 May 2022	0937_SD268_220528	Normal	EM2210255	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.618	-	-
	01 Sep 2022	0937_SD268_220901	Normal	EM2216994-AD	<0.0005	0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	2.05	-	-
	23 Nov 2023	0937_SD268_231123	Normal	EM2320912	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	1.64	-	-
SD270	26 Oct 2016	OSD004	Normal	EM1612984	<0.0006	0.0026	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.341	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28 Nov 2019	0937_SD04_191128	Normal	EM1920529-AC	<0.0005	0.0021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.303	-	-
	19 Mar 2020	0937_SD004_20200319	Normal	EM2004707	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.513	-	-
	23 Jun 2020	0937_SD004_200623	Normal	EM2010693	<0.0005	0.0017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.400	-	-
	12 Nov 2020	0937_SD270_201112	Normal	EM2020041	<0.0010	<0.0002	<0.0010	<0.0005	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	0.0010	<0.0005	<0.0005	0.0774	-	-
	02 Feb 2021	0937_SD270_210202	Normal	EM2101558	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	0.0006	<0.0002	<0.0002	<0.0005	0.0810	<0.0005	<0.0005	0.114	-	-
	29 Apr 2021	0937_SD270_20210429	Normal	EM2107856	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	0.0007	<0.0005	<0.0005	0.281	-	-
	05 Aug 2021	0937_SD270_210805	Normal	EM2115478	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.776	-	-
	11 Nov 2021	0937_SD270_211111	Normal	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.540	-	-
		0937_QC101_211111	Field_D	EM2123001	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.376	-	-
		0937_QC201_211111	Interlab_D	847843	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	1.3545	1.3	1.3095
	23 Feb 2022	0937_SD270_220223	Normal	EM2203197	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0337	-	-
	28 May 2022	0937_SD270_220528	Normal	EM2210255	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.379	-	-
	01 Sep 2022	0937_SD270_220901	Normal	EM2216994-AD	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.161	-	-
	23 Nov 2023	0937_SD270_231123	Normal	EM2320912	<0.0005	0.0110	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.0022	<0.0005	<0.0005	<0.0005	<0.0005	0.674	-	-
SD276	26 Oct 2016	OSD010	Normal	EM1612993	<0.0006	<0.0002	<0.0006	<0.0006	<0.0006	<0.0006	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	-	-	-
	19 Mar 2020	0937_SD276_20200319	Normal	EM2004706	<0.0025	<0.0010	<0.0025	<0.0025	<0.0025	<0.0025	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.312	-	-
	18 Jun 2020	0937_SD276_200618	Normal	EM2010381	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0555	-	-
	12 Nov 2020	0937_SD276_201112	Normal	EM2020047	<0.0005	0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.777	-	-
	02 Feb 2021	0937_SD276_210202	Normal	EM2101562	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0322	-	-
	29 Apr 2021	0937_SD276_20210429	Normal	EM2107855	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0815	-	-
	04 Aug 2021	0937_SD276_210804	Normal	EM2115483	<0.0009	<0.0004	<0.0009	<0.0009	<0.0009	<0.0009	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.688	-	-
	11 Nov 2021	0937_SD276_211110	Normal	EM2123004	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0791	-	-
	22 Feb 2022	0937_SD276_220222	Normal	EM2203194	<0.0010	<0.0004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0004	<0.0004	<0.0005	<0.0005	<0.0005	<0.0005	0.208	-	-
	27 May 2022	0937_SD276_220527	Normal	EM2210252	<0.0008	<0.0003	<0.0008	<0.0008	<0.0008	<0.0008	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	0.244	-	-
	31 Aug 2022	0937_SD276_220831	Normal	EM2216996	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.283	-	-
		0937_QC117_220831	Field_D	EM2216996	<0.0005	0.0004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.683	-	-
		0937_QC217_220831	Interlab_D	922406	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.01	<0.005	<0.005	0.1589	0.12	0.153
	21 Nov 2023	0937_SD276_231121	Normal	EM2320910	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0262	-	-

Lab Report Number			EM2320952			EM2320952	1048259		EM2320952			EM2320952	1048259	
Field ID			0937_MW623_231115	0937_QC100_231115		0937_MW623_231115	0937_QC200_231115		0937_MW622_231115	0937_QC101_231115		0937_MW622_231115	0937_QC201_231115	
Date			15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD
	Unit	LOR												
Perfluorocarbons														
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	4.77	3.64	27	4.77	4.4	8	254	241	5	254	210	19
Perfluorooctanoate (PFOA)	µg/L	0.01	0.13	0.12	8	0.13	0.11	17	9.96	10.7	7	9.96	7.2	**32**
Sum of PFHxS and PFOS	µg/L	0.01	7.19	6.23	14	7.19	6.6	9	472	437	8	472	370	24
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	0.52	0.49	6	0.52	0.47	10	34.6	37.1	7	34.6	28	21
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.4	0.48	18	0.4	0.48	18	43.5	29.1	**40**	43.5	23	**62**
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	2.42	2.59	7	2.42	2.2	10	218	196	11	218	160	**31**
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	0.24	0.2	18	0.24	0.22	9	19.6	19	3	19.6	10	**65**
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.04	<0.03	0	<0.04	<1	0
Perfluorobutanoic acid (PFBA)	µg/L	0.05	0.1	0.1	0	**0.1**	**0.16**	**46**	3.2	2.3	**33**	3.2	5.5	**53**
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.12	0.12	0	0.12	0.1	18	9.89	9.52	4	9.89	7	**34**
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.5	0.52	4	0.5	0.46	8	56.4	50.6	11	56.4	35	**47**
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01					0.24						13	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.06	0.06	0	0.06	0.05	18	4.56	5.02	10	4.56	2.8	**48**
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	0.11	0.13	17	0.11	<1	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.04	<0.03	0	<0.04	<0.01	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.04	<0.03	0	<0.04	<0.01	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.04	<0.03	0	<0.04	<0.01	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.04	<0.03	0	<0.04	<0.01	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.09	<0.09	0	<0.09	<0.01	0
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.04	<0.03	0	<0.04	<0.05	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.09	<0.09	0	<0.09	<0.05	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.09	<0.09	0	<0.09	<0.05	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.09	<0.09	0	<0.09	<0.05	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.09	<0.09	0	<0.09	<0.05	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.04	<0.03	0	<0.04	<0.05	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.04	<0.03	0	<0.04	<0.05	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
Sum of PFAS	µg/L	0.01	9.26	8.32	11	9.26	8.89	4	654	600	9	654	501.5	26
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01					4.51						217.2	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01					6.71						377.2	

*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

Lab Report Number			EM2320952			EM2320952	1048259		EM2320952			EM2320952	1048259	
Field ID			0937_MW705_231115	0937_QC102_231115		0937_MW705_231115	0937_QC202_231115		0937_MW740_231115	0937_QC103_231115		0937_MW740_231115	0937_QC203_231115	
Date			15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD
	Unit	LOR												
Perfluorocarbons														
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	1.61	1.79	11	1.61	1.2	29	2.93	3.38	14	2.93	3.2	9
Perfluorooctanoate (PFOA)	µg/L	0.01	0.02	0.02	0	**0.02**	<0.01	**67**	0.11	0.11	0	0.11	0.1	10
Sum of PFHxS and PFOS	µg/L	0.01	1.89	2.11	11	1.89	1.41	29	4.26	4.65	9	4.26	4.4	3
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	0.07	0.09	25	**0.07**	**0.03**	**80**	**0.14**	**0.2**	**35**	0.14	0.14	0
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.04	0.04	0	**0.04**	**0.02**	**67**	0.19	0.16	17	0.19	0.15	24
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	0.28	0.32	13	0.28	0.21	29	1.33	1.27	5	1.33	1.2	10
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	0.02	0.04	67	0.02	0.02	0	0.11	0.11	0	**0.11**	**0.08**	**32**
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	0	<0.1	<0.05	0	<0.1	<0.1	0	<0.1	0.08	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	0.27	0.22	20	0.27	0.23	16
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.05	0.06	18	**0.05**	**0.03**	**50**	0.43	0.44	2	0.43	0.4	7
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01					0.01						0.05	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	0.1	0.1	0	0.1	0.08	22
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<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	<0.05	<0.05	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	0	<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	<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	<0.05	<0.05	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	0.61	0.52	16	0.61	0.5	20
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
Sum of PFAS	µg/L	0.01	2.09	2.36	12	2.09	1.52	**32**	6.22	6.51	5	6.22	6.22	0
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01					1.2						3.3	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01					1.41						4.5	

**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

Lab Report Number			EM2320952			EM2320952	1048259		EM2320952			EM2320952	1048259		
Field ID			0937_SW252_231115	0937_QC104_231115		0937_SW252_231115	0937_QC204_231115		0937_SW230_231115	0937_QC105_231115		0937_SW230_231115	0937_QC205_231115		
Date			15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	
	Unit	LOR													
Perfluorocarbons															
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.6	0.61	2	0.6	0.6	0	0.42	0.42	0	0.42	0.42	0	
Perfluorooctanoate (PFOA)	µg/L	0.01	<0.01	0.01	0	<0.01	<0.01	0	0.01	0.01	0	0.01	0.01	0	
Sum of PFHxS and PFOS	µg/L	0.01	0.77	0.76	1	0.77	0.75	3	0.66	0.63	5	0.66	0.61	8	
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.02	0.05	86	<0.02	0.02	0	0.03	0.03	0	0.03	0.03	0	
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.02	<0.02	0	<0.02	0.01	0	0.02	0.02	0	0.02	0.02	0	
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	0.17	0.15	13	0.17	0.15	13	0.24	0.21	13	0.24	0.19	23	
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.02	0.02	0	<0.02	0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	0	<0.1	<0.05	0	<0.1	<0.1	0	<0.1	0.06	0	
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.05	0.04	22	**0.05**	**0.03**	**50**	0.55	0.44	22	0.55	0.47	16	
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.03	0.04	29	0.03	0.03	0	0.46	0.47	2	0.46	0.43	7	
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01					0.01						0.01		
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	0.06	0.07	15	0.06	0.05	18	
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<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	<0.05	<0.05	0	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	0	<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	<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	<0.05	<0.05	0	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0	
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	1.84	1.84	0	1.84	1.6	14	
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
Sum of PFAS	µg/L	0.01	0.85	0.92	8	0.85	0.86	1	3.63	3.51	3	3.63	3.29	10	
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01					0.6						0.43		
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01					0.75						0.62		

**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

Lab Report Number			EM2320952			EM2320952	1048259		EM2320952			EM2320952	1048259		
Field ID			0937_SW251_231115	0937_QC107_231115		0937_SW251_231115	0937_QC207_231115		0937_MW607_231115	0937_QC108_231115		0937_MW607_231115	0937_QC208_231115		
Date			15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	
	Unit	LOR													
Perfluorocarbons															
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	4.74	6.15	26	**4.74**	**6.4**	**30**	1.5	1.47	2	1.5	1.6	6	
Perfluorooctanoate (PFOA)	µg/L	0.01	0.16	0.17	6	0.16	0.16	0	0.03	0.03	0	0.03	0.03	0	
Sum of PFHxS and PFOS	µg/L	0.01	8.06	9.45	16	8.06	9.4	15	2.18	2.06	6	2.18	2.26	4	
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	0.41	0.5	20	0.41	0.4	2	**0.1**	**0.14**	**33**	0.1	0.1	0	
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.49	0.48	2	0.49	0.4	20	0.06	0.08	29	**0.06**	**0.09**	**40**	
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	3.32	3.3	1	3.32	3	10	0.68	0.59	14	0.68	0.66	3	
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.2**	**0.27**	**30**	0.2	0.19	5	0.09	0.07	25	0.09	0.08	12	
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	0	<0.1	0.09	0	<0.1	<0.1	0	<0.1	0.12	18	
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.18	0.15	18	0.18	0.17	6	**0.06**	**0.04**	**40**	0.06	0.05	18	
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.58	0.58	0	0.58	0.51	13	0.13	0.11	17	0.13	0.11	17	
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01					0.16						0.05		
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.1	0.12	18	0.1	0.08	22	<0.02	<0.02	0	<0.02	0.01	0	
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0	
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<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	<0.05	<0.05	0	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	0	<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	<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	<0.05	<0.05	0	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0	
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	0.11	0.11	0	0.11	0.1	10	<0.05	<0.05	0	<0.05	<0.05	0	
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0	
Sum of PFAS	µg/L	0.01	10.3	11.8	14	10.3	11.68	13	2.65	2.53	5	2.65	2.9	9	
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01					6.56						1.63		
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01					9.56						2.29		

*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

Lab Report Number			EM2320952			EM2320952	1048259		EM2320952			EM2320952	1048259	
Field ID			0937_MW609_231115	0937_QC109_231115		0937_MW609_231115	0937_QC209_231115		0937_MW734_231116	0937_QC110_231116		0937_MW734_231116	0937_QC210_231116	
Date			15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD
	Unit	LOR												
Perfluorocarbons														
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	0.2	0.18	11	0.2	0.17	16	161	169	5	161	200	22
Perfluorooctanoate (PFOA)	µg/L	0.01	0.06	0.06	0	0.06	0.06	0	0.48	0.55	14	0.48	0.58	19
Sum of PFHxS and PFOS	µg/L	0.01	2.17	2.23	3	2.17	1.97	10	177	185	4	177	215	19
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	0.49	0.57	15	0.49	0.48	2	0.95	1.18	22	0.95	0.87	9
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.47	0.5	6	0.47	0.52	10	1.32	1.12	16	1.32	1	28
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	1.97	2.05	4	1.97	1.8	9	15.9	16.2	2	15.9	15	6
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	0.05	0.05	0	**0.05**	**0.03**	**50**	1.32	1.17	12	1.32	<1	28
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	0.09	0.08	12	0.09	<1	0
Perfluorobutanoic acid (PFBA)	µg/L	0.05	0.1	0.1	0	**0.1**	**0.17**	**52**	0.4	0.4	0	0.4	0.79	**66**
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.13	0.12	8	0.13	0.11	17	0.6	0.65	8	0.6	0.64	6
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.55	0.52	6	0.55	0.49	12	2.1	1.99	5	2.1	2	5
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01					0.23						0.39	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.05	0.05	0	0.05	0.04	22	0.16	0.19	17	0.16	0.15	6
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.03	0	<0.02	0.02	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.03	0	<0.02	<0.01	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.03	0	<0.02	<0.01	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.03	0	<0.02	<0.01	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.03	0	<0.02	<0.01	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.09	0	<0.05	<0.01	0
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.03	0	<0.02	<0.05	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.09	0	<0.05	<0.05	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.09	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	<0.09	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	<0.09	0	<0.05	<0.05	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.03	0	<0.02	<0.05	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.03	0	<0.02	<0.05	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
Sum of PFAS	µg/L	0.01	4.07	4.2	3	4.07	4.1	1	184	192	4	184	221.44	18
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01					0.23						200.58	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01					2.03						215.58	

**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

			Lab Report Number	EM2320952			EM2320952	1048259		EM2320952			EM2320952	1048259	
			Field ID	0937_SW258_231116	0937_QC114_231116		0937_SW258_231116	0937_QC214_231116		0937_SW227_231116	0937_QC115_231116		0937_SW227_231116	0937_QC215_231116	
			Date	16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD
	Unit	LOR													
Perfluorocarbons															
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01		4.25	4.65	9	4.25	4.8	12	0.7	0.71	1	0.7	0.72	3
Perfluorooctanoate (PFOA)	µg/L	0.01		0.16	0.16	0	0.16	0.15	6	0.07	0.06	15	0.07	0.06	15
Sum of PFHxS and PFOS	µg/L	0.01		8.07	8.24	2	8.07	8.1	0	0.99	1.05	6	0.99	1.01	2
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01		0.51	0.58	13	0.51	0.5	2	0.05	0.06	18	0.05	0.05	0
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01		0.63	0.55	14	0.63	0.64	2	0.04	0.05	22	0.04	0.04	0
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01		3.82	3.59	6	3.82	3.3	15	0.29	0.34	16	0.29	0.29	0
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01		0.23	0.21	9	0.23	0.22	4	<0.02	<0.02	0	<0.02	0.02	0
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01		<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorobutanoic acid (PFBA)	µg/L	0.05		<0.1	<0.1	0	<0.1	0.1	0	<0.1	<0.1	0	<0.1	0.09	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01		0.22	0.19	15	0.22	0.2	10	0.14	0.12	15	0.14	0.13	7
Perfluorohexanoic acid (PFHxA)	µg/L	0.01		0.71	0.69	3	0.71	0.64	10	0.17	0.17	0	0.17	0.14	19
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01						0.22						0.01	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01		0.12	0.12	0	0.12	0.09	29	0.07	0.07	0	0.07	0.06	15
Perfluorononanoic acid (PFNA)	µg/L	0.01		<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01		<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01		<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01		<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01		<0.02	<0.02	0	<0.02	<0.01	0	<0.02	<0.02	0	<0.02	<0.01	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01		<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02		<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<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	<0.05	<0.05	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05		<0.05	<0.05	0	<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	<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	<0.05	<0.05	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02		<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02		<0.02	<0.02	0	<0.02	<0.05	0	<0.02	<0.02	0	<0.02	<0.05	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01		<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05		0.09	0.1	11	0.09	0.07	25	<0.05	<0.05	0	<0.05	<0.05	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01		<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01		<0.05	<0.05	0	<0.05	<0.01	0	<0.05	<0.05	0	<0.05	<0.01	0
Sum of PFAS	µg/L	0.01		10.7	10.8	1	10.7	10.95	2	1.53	1.58	3	1.53	1.61	5
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01						4.95						0.78	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01						8.25						1.07	

*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

Lab Report Number			EM2320952			EM2320952	1048259	
Field ID			0937_SW209_231117	0937_QC117_231117		0937_SW209_231117	0937_QC217_231117	
Date			17 Nov 2023	17 Nov 2023	RPD	17 Nov 2023	17 Nov 2023	RPD
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	12.7	15.2	18	12.7	11	14
Perfluorooctanoate (PFOA)	µg/L	0.01	0.34	0.4	16	0.34	0.33	3
Sum of PFHxS and PFOS	µg/L	0.01	17.2	19.6	13	17.2	14.2	19
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**1.48**	**1.04**	**35**	1.48	0.76	**64**
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	0.75	0.68	10	0.75	0.84	11
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	4.52	4.41	2	4.52	3.2	**34**
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	0.45	0.38	17	0.45	0.23	**65**
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	0.16	0.17	6	**0.16**	**0.07**	**78**
Perfluorobutanoic acid (PFBA)	µg/L	0.05	0.4	0.4	0	0.4	0.8	**67**
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.43	0.51	17	0.43	0.5	15
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	1.25	1.17	7	1.25	0.89	**34**
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01					0.37	
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.15	0.18	18	0.15	0.14	7
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.04	0	<0.02	<0.01	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.04	0	<0.02	<0.01	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.04	0	<0.02	<0.01	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.04	0	<0.02	<0.01	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.04	0	<0.02	<0.05	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.09	0	<0.05	<0.05	0
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	**0.18**	**0.12**	**40**	**0.18**	**0.08**	**77**
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.09	0	<0.05	<0.05	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.09	0	<0.05	<0.05	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.09	0	<0.05	<0.05	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.09	0	<0.05	<0.05	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.04	0	<0.02	<0.05	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.04	0	<0.02	<0.05	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	**0.08**	**0.11**	**32**	0.08	0.07	13
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.05	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0
Sum of PFAS	µg/L	0.01	22.9	24.8	8	22.9	19.37	17
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01					11.33	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01					14.53	

*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

Lab Report Number			EM2320952			EM2320952	1048259	
Field ID			0937_SD230_231115	0937_QC106_231115		0937_SD230_231115	0937_QC206_231115	
Date			15 Nov 2023	15 Nov 2023	RPD	15 Nov 2023	15 Nov 2023	RPD
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	0.0159	0.017	7	0.0159	0.016	1
Perfluorooctanoate (PFOA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Sum of PFHxS and PFOS	mg/kg	0.0002	0.0166	0.0179	8	0.0166	0.016	4
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	0.0007	0.0009	25	0.0007	<0.005	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	0.0003	0.0003	0	0.0003	<0.005	0
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	0	<0.001	<0.005	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	0.0002	0.0002	0	0.0002	<0.005	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	0.0004	0.0004	0	0.0004	<0.005	0
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005					<0.005	
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/kg	0.0005	0.0028	0.0029	4	0.0028	<0.01	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Sum of PFAS	mg/kg	0.0002	0.0203	0.0217	7	0.0203	<0.05	0
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005					0.016	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005					0.016	

**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

Lab Report Number			EM2320952			EM2320952	1048259	
Field ID			0937_SD242_231116	0937_QC111_231116		0937_SD242_231116	0937_QC211_231116	
Date			16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	0.0531	0.0682	25	0.0531	0.068	25
Perfluorooctanoate (PFOA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Sum of PFHxS and PFOS	mg/kg	0.0002	0.0546	0.0702	25	0.0546	0.068	22
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	0.0015	0.002	29	0.0015	<0.005	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	**0.0002**	**0.0004**	**67**	0.0002	<0.005	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	0.0017	0.0023	30	0.0017	<0.005	0
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	0	<0.001	<0.005	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	0.0002	0.0002	0	0.0002	<0.005	0
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005					<0.005	
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	0.0007	0.0009	25	0.0007	<0.005	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.01	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Sum of PFAS	mg/kg	0.0002	0.0574	0.074	25	0.0574	0.068	17
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005					0.068	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005					0.068	

**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

Lab Report Number			EM2320952			EM2320952	1048259	
Field ID			0937_SD259_231116	0937_QC112_231116		0937_SD259_231116	0937_QC212_231116	
Date			16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	**0.0683**	**0.0334**	**69**	0.0683	0.076	11
Perfluorooctanoate (PFOA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Sum of PFHxS and PFOS	mg/kg	0.0002	**0.071**	**0.0356**	**66**	0.071	0.076	7
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	0.0027	0.0022	20	0.0027	<0.005	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	**0.0003**	<0.0002	**40**	0.0003	<0.005	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	**0.0051**	**0.0014**	**114**	0.0051	<0.005	2
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	0	<0.001	<0.005	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	0.0003	0.0003	0	0.0003	<0.005	0
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005					<0.005	
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	**0.0004**	<0.0002	**67**	0.0004	<0.005	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.01	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Sum of PFAS	mg/kg	0.0002	0.0771	0.0373	**70**	0.0771	0.076	1
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005					0.076	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005					0.076	

**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

Lab Report Number			EM2320952			EM2320952	1048259	
Field ID			0937_SD258_231116	0937_QC113_231116		0937_SD258_231116	0937_QC213_231116	
Date			16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	**0.025**	**0.0816**	**106**	**0.025**	**0.088**	**112**
Perfluorooctanoate (PFOA)	mg/kg	0.0002	<0.0002	**0.0004**	**67**	<0.0002	<0.005	0
Sum of PFHxS and PFOS	mg/kg	0.0002	**0.0275**	**0.0868**	**104**	**0.0275**	**0.0938**	**109**
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	0.0002	0.0002	0	0.0002	<0.005	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	**0.0002**	**0.0004**	**67**	0.0002	<0.005	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	**0.0025**	**0.0052**	**70**	**0.0025**	**0.0058**	**80**
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	**0.0007**	**111**	<0.0002	<0.005	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	**0.0004**	**0.0013**	**106**	0.0004	<0.005	0
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	0	<0.001	<0.005	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	0.0004	0.0005	22	0.0004	<0.005	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	0.0006	0.0008	29	0.0006	<0.005	0
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005					<0.005	
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	<0.0002	**0.0003**	**40**	<0.0002	<0.005	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/kg	0.0005	<0.0005	0.0006	18	<0.0005	<0.01	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Sum of PFAS	mg/kg	0.0002	**0.0293**	**0.092**	**103**	0.0293	0.0938	**105**
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005					0.088	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005					0.0938	

**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

Lab Report Number			EM2320952			EM2320952	1048259	
Field ID			0937_SD227_231116	0937_QC116_231116		0937_SD227_231116	0937_QC216_231116	
Date			16 Nov 2023	16 Nov 2023	RPD	16 Nov 2023	16 Nov 2023	RPD
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	0.004	0.0036	11	0.004	<0.005	0
Perfluorooctanoate (PFOA)	mg/kg	0.0002	0.0006	0.0007	15	0.0006	<0.005	0
Sum of PFHxS and PFOS	mg/kg	0.0002	0.0042	0.0038	10	0.0042	<0.005	0
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	0.0002	0.0002	0	0.0002	<0.005	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	<0.001	<0.001	0	<0.001	<0.005	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	**0.0003**	**0.0002**	40	0.0003	<0.005	0
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005					<0.005	
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	**0.0002**	**0.0003**	40	0.0002	<0.005	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.005	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.0002	<0.01	0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
6:2 Fluorotelomer Sulfonate (6:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.01	0
8:2 Fluorotelomer sulfonate (8:2 FtS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.0005	<0.005	0
Sum of PFAS	mg/kg	0.0002	0.0053	0.005	6	0.0053	<0.05	0
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.005					<0.005	
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	mg/kg	0.005					<0.005	

*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

	Lab Report Number		EM2320952						
	Field ID		0937_QC300_231115	0937_QC302_231116	0937_QC304_231117	0937_QC306_231120	0937_QC308_231121	0937_QC310_231122	0937_QC312_231123
	Date		15 Nov 2023	16 Nov 2023	17 Nov 2023	20 Nov 2023	21 Nov 2023	22 Nov 2023	23 Nov 2023
	Sample Type		Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate	Rinsate
	Unit	LOR							
Perfluorocarbons									
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	0.11	<0.01	<0.01	<0.01	<0.01
Perfluorooctanoate (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01							
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sum of PFAS	µg/L	0.01	<0.01	<0.01	0.16	<0.01	<0.01	<0.01	<0.01
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01							
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01							

	Lab Report Number		EM2320952						
	Field ID		0937_QC400_231115	0937_QC402_231116	0937_QC404_231117	0937_QC406_231120	0937_QC408_231121	0937_QC410_231122	0937_QC412_231123
	Date		15 Nov 2023	16 Nov 2023	17 Nov 2023	20 Nov 2023	21 Nov 2023	22 Nov 2023	23 Nov 2023
	Sample Type		Field_B	Field_B	Field_B	Field_B	Field_B	Field_B	Field_B
	Unit	LOR							
Perfluorocarbons									
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorooctanoate (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01							
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sum of PFAS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01							
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01							

Lab Report Number			EM2320952					1048259
Field ID			0937_QC500_231124	0937_QC501_231124	0937_QC502_231124	0937_QC503_231124	0937_QC504_231124	0937_QC505_231124
Date			24 Nov 2023	24 Nov 2023	24 Nov 2023	24 Nov 2023	24 Nov 2023	24 Nov 2023
Sample Type			Trip_B	Trip_B	Trip_B	Trip_B	Trip_B	Trip_B
	Unit	LOR						
Perfluorocarbons								
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorooctanoate (PFOA)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.01						<0.01
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
6:2 Fluorotelomer Sulfonate (6:2 FtS)	µg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonate (8:2 FtS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
Sum of PFAS	µg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1
Sum of US EPA PFAS (PFOS + PFOA)*	mg/kg	0.01						<0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	ug/L	0.01						<0.01

APPENDIX

C

LABORATORY CERTIFICATES

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CERTIFICATE OF ANALYSIS

Work Order	: **EM2320952**	Page	: 1 of 57
Amendment	: **1**		
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60111	Issue Date	: 14-Dec-2023 14:45
Sampler	: [redacted]		
Site	: Base		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 136		
No. of samples analysed	: 122		

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*
[redacted]	Metals Team Leader	Melbourne Inorganics, Springvale, VIC
[redacted]	LCMS Coordinator	Melbourne Organics, Springvale, VIC
[redacted]	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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: Samples EM2320952 required dilution due to matrix interferences. LOR values have been adjusted accordingly.
- EP231X: Poor matrix spike recovery for samples EM2320952-004, 035, 054, 061, 065 due to sample matrix interference.
- EP231X: Surrogate recovery not determined for samples EM2320952-001,033 due to requirement to dilute extract. Confirmed by re-analysis.
- EP231X: Poor matrix spike recovery for sample EM2320952-046 due to sample matrix interference. Confirmed by re-analysis.
- 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.
- EP231X: Poor matrix spike recovery for sample EM2320952-101 due to sample matrix interference.
- Amendment (14/11/23): This report has been amended and re-released to allow the reporting of additional analytical data, specifically addition of sample 0937_MW603_231116_02 (#136)
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW201_231115	0937_MW202_231115	0937_MW306_231116	0937_MW315_231116	0937_MW323_231115
				Sampling date / time	15-Nov-2023 09:26	15-Nov-2023 09:14	16-Nov-2023 08:06	16-Nov-2023 08:22	15-Nov-2023 09:43
Compound	CAS Number	LOR	Unit		EM2320952-001	EM2320952-002	EM2320952-003	EM2320952-004	EM2320952-005
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		1650	53.0	77.9	32.5	15.1
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		1770	62.2	92.0	36.3	15.8
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		6810	423	613	165	63.9
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		486	45.6	28.8	7.58	6.59
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		735	451	958	52.5	51.3
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.38	<0.04	<3.76	<0.04	<0.04
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		68.4	5.1	9.5	3.6	2.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		526	15.4	30.6	10.8	4.16
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		2380	74.7	134	50.8	19.7
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		313	13.9	15.3	4.85	2.94
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		423	31.1	29.0	5.94	4.49
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		0.52	0.15	0.26	<0.04	<0.04
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.38	<0.04	<0.04	<0.04	<0.04
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0 02	µg/L		0 38	0 04	0 04	0 04	0 04
Perfluorododecanoic acid (PFDoDA)	307-55-1	0 02	µg/L		0 38	0 04	0 04	0 04	0 04
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0 02	µg/L		0 38	0 04	0 04	0 04	0 04
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0 05	µg/L		0 95	0 09	0 09	0 09	0 09
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.38	<0.04	0.12	<0.04	<0.04
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.95	<0.09	<0.09	<0.09	<0.09

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW201_231115	0937_MW202_231115	0937_MW306_231116	0937_MW315_231116	0937_MW323_231115
				Sampling date / time	15-Nov-2023 09:26	15-Nov-2023 09:14	16-Nov-2023 08:06	16-Nov-2023 08:22	15-Nov-2023 09:43
Compound	CAS Number	LOR	Unit		EM2320952-001	EM2320952-002	EM2320952-003	EM2320952-004	EM2320952-005
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.95	<0.09	<0.09	<0.09	<0.09
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.95	<0.09	<0.09	<0.09	<0.09
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.95	<0.09	<0.09	<0.09	<0.09
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.38	<0.04	<0.04	<0.04	<0.04
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.38	<0.04	<0.04	<0.04	<0.04
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.38	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.38	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.38	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.38	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	---	0.01	µg/L		**15200**	**1180**	**1990**	**370**	**186**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**7540**	**874**	**1570**	**218**	**115**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**12900**	**1070**	**1870**	**326**	**164**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**Not Determined**	**85.7**	**106**	**105**	**105**
13C8-PFOA	---	0.02	%		**Not Determined**	**101**	**99.0**	**108**	**100**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW324_231115	0937_MW325_231116	0937_MW326_231116	0937_MW603_231116	0937_MW607_231115
				Sampling date / time	15-Nov-2023 08:59	16-Nov-2023 14:44	16-Nov-2023 11:45	16-Nov-2023 12:57	15-Nov-2023 17:50
Compound	CAS Number	LOR	Unit		EM2320952-006	EM2320952-007	EM2320952-008	EM2320952-009	EM2320952-010
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**12.0**	**1.17**	**0.70**	**0.28**	**0.10**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**15.9**	**0.98**	**1.02**	**0.24**	**0.06**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**64.4**	**3.94**	**8.43**	**2.06**	**0.68**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**5.66**	**0.25**	**0.48**	**0.11**	**0.09**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**41.9**	**2.87**	**8.05**	**1.46**	**1.50**
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		**1.6**	**2.5**	**0.4**	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**3.31**	**9.16**	**0.81**	**0.05**	**0.06**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**15.0**	**7.16**	**1.85**	**0.39**	**0.13**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**2.58**	**3.09**	**0.30**	**0.03**	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**3.98**	**1.58**	**0.48**	**0.05**	**0.03**
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	**0.37**	**0.04**	<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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW324_231115	0937_MW325_231116	0937_MW326_231116	0937_MW603_231116	0937_MW607_231115
				Sampling date / time	15-Nov-2023 08:59	16-Nov-2023 14:44	16-Nov-2023 11:45	16-Nov-2023 12:57	15-Nov-2023 17:50
Compound	CAS Number	LOR	Unit		EM2320952-006	EM2320952-007	EM2320952-008	EM2320952-009	EM2320952-010
					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	0.08	<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		166	33.2	22.6	4.67	2.65
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		106	6.81	16.5	3.52	2.18
Sum of PFAS (WA DER List)	---	0.01	µg/L		145	31.6	21.0	4.32	2.50
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		113	110	111	102	105
13C8-PFOA	---	0.02	%		102	99.7	102	99.9	103

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW609_231115	0937_MW612_231116	0937_MW616_231116	0937_MW617_231115	0937_MW622_231115
				Sampling date / time	15-Nov-2023 18:05	16-Nov-2023 12:14	16-Nov-2023 18:30	15-Nov-2023 09:41	15-Nov-2023 08:42
Compound	CAS Number	LOR	Unit		EM2320952-011	EM2320952-012	EM2320952-013	EM2320952-014	EM2320952-015
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		0.49	0.13	31.9	0.02	34.6
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		0.47	0.13	55.0	0 02	43.5
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		1.97	2.58	351	0.17	218
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		0.05	0.21	26.9	<0.02	19.6
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		0.20	3.24	250	0.50	254
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.37	<0.02	<0.04
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		0.1	<0.1	4.8	<0.1	3.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		0.13	0.06	9.77	<0.02	9.89
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		0.55	0.39	56.8	0.02	56.4
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		0.05	0.05	10.5	<0.02	4.56
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		0.06	0.07	25.7	<0.01	9.96
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	0.11	<0.02	0.11
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.04
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0 02	µg/L		0 02	0 02	0 04	0 02	0 04
Perfluorododecanoic acid (PFDoDA)	307-55-1	0 02	µg/L		0 02	0 02	0 04	0 02	0 04
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0 02	µg/L		0 02	0 02	0 04	0 02	0 04
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0 05	µg/L		0 05	0 05	0 09	0 05	0 09
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	0.12	<0.02	<0.04
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.09	<0.05	<0.09

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW609_231115	0937_MW612_231116	0937_MW616_231116	0937_MW617_231115	0937_MW622_231115
				Sampling date / time	15-Nov-2023 18:05	16-Nov-2023 12:14	16-Nov-2023 18:30	15-Nov-2023 09:41	15-Nov-2023 08:42
Compound	CAS Number	LOR	Unit		EM2320952-011	EM2320952-012	EM2320952-013	EM2320952-014	EM2320952-015
					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	<0.09	<0.05	<0.09
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.09	<0.05	<0.09
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.09	<0.05	<0.09
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.04
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.04
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		**4.07**	**6.86**	**823**	**0.71**	**654**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**2.17**	**5.82**	**601**	**0.67**	**472**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**3.55**	**6.52**	**740**	**0.71**	**591**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**107**	**112**	**107**	**100**	**97.6**
13C8-PFOA	---	0.02	%		**102**	**103**	**105**	**101**	**104**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW623_231115	0937_MW626_231115	0937_MW627_231115	0937_MW628_231116	0937_MW636_231116
				Sampling date / time	15-Nov-2023 08:29	15-Nov-2023 08:13	15-Nov-2023 08:34	16-Nov-2023 17:27	16-Nov-2023 18:04
Compound	CAS Number	LOR	Unit		EM2320952-016	EM2320952-017	EM2320952-018	EM2320952-019	EM2320952-020
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.52**	**1.53**	**3.85**	**1.91**	**0.17**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**0.40**	**1.24**	**4.01**	**1.62**	**0.08**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**2.42**	**4.52**	**21.8**	**11.4**	**0.72**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.24**	**0.03**	**1.37**	**0.30**	**0.02**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**4.77**	**0.76**	**15.8**	**2.52**	**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**	**0.5**	**0.7**	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.12**	**1.40**	**1.62**	**0.21**	**0.13**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.50**	**2.00**	**7.92**	**1.00**	**0.24**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.06**	**0.79**	**0.74**	**0.11**	**0.06**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.13**	**0.12**	**1.33**	**0.16**	**0.07**
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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW623_231115	0937_MW626_231115	0937_MW627_231115	0937_MW628_231116	0937_MW636_231116
				Sampling date / time	15-Nov-2023 08:29	15-Nov-2023 08:13	15-Nov-2023 08:34	16-Nov-2023 17:27	16-Nov-2023 18:04
Compound	CAS Number	LOR	Unit		EM2320952-016	EM2320952-017	EM2320952-018	EM2320952-019	EM2320952-020
					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	0.22	<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		9.26	13.1	59.1	19.2	1.85
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		7.19	5.28	37.6	13.9	1.08
Sum of PFAS (WA DER List)	---	0.01	µg/L		8.62	11.8	53.8	17.3	1.75
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		112	86.3	109	111	112
13C8-PFOA	---	0.02	%		99.4	94.4	102	98.9	100

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW701_231115	0937_MW702_231115	0937_MW704_231115	0937_MW705_231115	0937_MW707_231115
				Sampling date / time	15-Nov-2023 12:02	15-Nov-2023 16:11	15-Nov-2023 09:14	15-Nov-2023 09:03	15-Nov-2023 13:50
Compound	CAS Number	LOR	Unit		EM2320952-021	EM2320952-022	EM2320952-023	EM2320952-024	EM2320952-025
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0 02	µg/L		<0.02	**0.95**	**7.92**	**0.07**	**0.25**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		0 02	**0.82**	**7.52**	**0.04**	**0.20**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		0 01	**4.85**	**38.8**	**0.28**	**1.38**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	**0.41**	**3.32**	**0.02**	**0.06**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	**10.7**	**35.6**	**1.61**	**1.76**
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**	**0.8**	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	**0.18**	**1.38**	<0.02	**0.08**
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	**0.90**	**8.93**	**0.05**	**0.27**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	**0.18**	**1.43**	<0.02	**0.05**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	**0.37**	**2.57**	**0.02**	**0.07**
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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW701_231115	0937_MW702_231115	0937_MW704_231115	0937_MW705_231115	0937_MW707_231115
				Sampling date / time	15-Nov-2023 12:02	15-Nov-2023 16:11	15-Nov-2023 09:14	15-Nov-2023 09:03	15-Nov-2023 13:50
Compound	CAS Number	LOR	Unit		EM2320952-021	EM2320952-022	EM2320952-023	EM2320952-024	EM2320952-025
					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		<0.01	**19.5**	**108**	**2.09**	**4.12**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	**15.6**	**74.4**	**1.89**	**3.14**
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	**18.2**	**97.4**	**2.03**	**3.86**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**83.5**	**87.4**	**84.2**	**84.7**	**102**
13C8-PFOA	---	0.02	%		**101**	**93.8**	**97.1**	**99.6**	**98.8**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW708_231115	0937_MW709_231115	0937_MW711_231120	0937_MW712_231115	0937_MW714_231115
				Sampling date / time	15-Nov-2023 10:37	15-Nov-2023 10:00	20-Nov-2023 14:44	15-Nov-2023 13:47	15-Nov-2023 10:50
Compound	CAS Number	LOR	Unit		EM2320952-026	EM2320952-027	EM2320952-028	EM2320952-029	EM2320952-030
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.14**	**1.38**	**0.04**	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**0.14**	**1.38**	**0.02**	0 02	0 02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**1.38**	**6.34**	**0.17**	0 01	0 01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.09**	**0.33**	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.73**	**4.59**	**0.04**	<0.01	**0.04**
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	**0.2**	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.22**	**0.26**	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.29**	**1.25**	0 02	0 02	0 02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.09**	**0.19**	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.10**	**0.33**	<0.01	<0.01	<0.01
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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW708_231115	0937_MW709_231115	0937_MW711_231120	0937_MW712_231115	0937_MW714_231115
				Sampling date / time	15-Nov-2023 10:37	15-Nov-2023 10:00	20-Nov-2023 14:44	15-Nov-2023 13:47	15-Nov-2023 10:50
Compound	CAS Number	LOR	Unit		EM2320952-026	EM2320952-027	EM2320952-028	EM2320952-029	EM2320952-030
					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		**3.18**	**16.2**	**0.27**	<0.01	**0.04**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**2.11**	**10.9**	**0.21**	<0.01	**0.04**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**2.95**	**14.5**	**0.25**	<0.01	**0.04**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**95.5**	**91.7**	**91.0**	**97.3**	**88.4**
13C8-PFOA	---	0.02	%		**99.7**	**97.5**	**102**	**101**	**102**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW715_231120	0937_MW716_231120	0937_MW719_231117	0937_MW720_231117	0937_MW724_231116
				Sampling date / time	20-Nov-2023 15:19	20-Nov-2023 15:04	17-Nov-2023 08:26	17-Nov-2023 08:48	16-Nov-2023 08:01
Compound	CAS Number	LOR	Unit		EM2320952-031	EM2320952-032	EM2320952-033	EM2320952-034	EM2320952-035
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	**373**	**73.0**	**2.39**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	**406**	**124**	**1.85**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**0.04**	**0.02**	**3080**	**910**	**3.16**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0 02	µg/L		0 02	0 02	**272**	**42.1**	**0.02**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0 01	µg/L		**0.13**	**0.09**	**3070**	**456**	**0.30**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0 02	µg/L		0 02	0 02	**1.93**	**0.06**	0 02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	**31.6**	**10.3**	**0.1**
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	**176**	**29.5**	**0.43**
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	**516**	**166**	**2.78**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	**148**	**25.1**	**0.06**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	**366**	**43.4**	**0.03**
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	**2.40**	**0.25**	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.36	<0.04	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.36	<0.04	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.36	<0.04	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.36	<0.04	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.89	<0.09	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	**0.38**	**0.08**	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.89	<0.09	<0.05

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW715_231120	0937_MW716_231120	0937_MW719_231117	0937_MW720_231117	0937_MW724_231116
				Sampling date / time	20-Nov-2023 15:19	20-Nov-2023 15:04	17-Nov-2023 08:26	17-Nov-2023 08:48	16-Nov-2023 08:01
Compound	CAS Number	LOR	Unit		EM2320952-031	EM2320952-032	EM2320952-033	EM2320952-034	EM2320952-035
					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	<0.89	<0.09	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.89	<0.09	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.89	<0.09	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.36	<0.04	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.36	<0.04	<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	<0.36	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	**4.33**	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.36	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.36	<0.05	<0.05
EP231P: PFAS Sums									
Sum of PFAS	---	0.01	µg/L		**0.17**	**0.11**	**8450**	**1880**	**11.1**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.17**	**0.11**	**6150**	**1370**	**3.46**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.17**	**0.11**	**7760**	**1710**	**9.25**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**91.3**	**96.6**	**Not Determined**	**90.0**	**121**
13C8-PFOA	---	0.02	%		**98.2**	**101**	**Not Determined**	**95.1**	**103**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW725_231115	0937_MW726_231116	0937_MW728_231115	0937_MW729_231117	0937_MW730_231117
				Sampling date / time	15-Nov-2023 18:03	16-Nov-2023 08:41	15-Nov-2023 17:44	17-Nov-2023 08:49	17-Nov-2023 08:50
Compound	CAS Number	LOR	Unit		EM2320952-036	EM2320952-037	EM2320952-038	EM2320952-039	EM2320952-040
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.85**	**29.4**	**0.25**	**0.39**	**0.47**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**1.11**	**28.6**	**0.29**	**0.33**	**0.34**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**7.13**	**89.1**	**1.50**	**4.00**	**1.36**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.45**	**9.23**	**0.07**	**0.37**	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**4.91**	**27.6**	**0.66**	**9.82**	**0.31**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.04	<0.02	**0.02**	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		**0.1**	**2.5**	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.28**	**5.68**	**0.10**	**0.12**	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**1.27**	**25.4**	**0.42**	**0.37**	0 02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.20**	**3.41**	**0.06**	**0.05**	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.38**	**5.79**	**0.07**	**0.12**	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.04	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.04	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0 02	µg/L		0 02	0 04	0 02	0 02	0 02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0 02	µg/L		0 02	0 04	0 02	0 02	0 02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0 02	µg/L		0 02	0 04	0 02	0 02	0 02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0 05	µg/L		0 05	0 09	0 05	0 05	0 05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.04	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.09	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW725_231115	0937_MW726_231116	0937_MW728_231115	0937_MW729_231117	0937_MW730_231117
				Sampling date / time	15-Nov-2023 18:03	16-Nov-2023 08:41	15-Nov-2023 17:44	17-Nov-2023 08:49	17-Nov-2023 08:50
Compound	CAS Number	LOR	Unit		EM2320952-036	EM2320952-037	EM2320952-038	EM2320952-039	EM2320952-040
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.09	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.09	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.09	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.04	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.04	<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		**16.7**	**227**	**3.42**	**15.6**	**2.48**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**12.0**	**117**	**2.16**	**13.8**	**1.67**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**15.1**	**189**	**3.06**	**14.9**	**2.14**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**106**	**108**	**107**	**101**	**105**
13C8-PFOA	---	0.02	%		**98.6**	**98.3**	**98.8**	**106**	**97.2**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW733_231123	0937_MW734_231116	0937_MW735_231115	0937_MW737_231116	0937_MW738_231117
				Sampling date / time	23-Nov-2023 13:37	16-Nov-2023 08:23	15-Nov-2023 18:04	16-Nov-2023 10:37	17-Nov-2023 08:49
Compound	CAS Number	LOR	Unit		EM2320952-041	EM2320952-042	EM2320952-043	EM2320952-044	EM2320952-045
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.68**	**0.95**	<0.02	<0.02	**20.8**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**0.50**	**1.32**	0 02	0 02	**26.4**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**1.60**	**15.9**	**0.02**	**0.07**	**129**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		0 02	**1.32**	<0.02	<0.02	**6.21**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.15**	**161**	**0.12**	**1.41**	**99.6**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	**0.09**	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	**0.4**	<0.1	<0.1	**1.3**
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.04**	**0.60**	<0.02	<0.02	**5.01**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.16**	**2.10**	0 02	**0.02**	**26.5**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	**0.16**	<0.02	<0.02	**4.41**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.02**	**0.48**	<0.01	<0.01	**5.42**
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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW733_231123	0937_MW734_231116	0937_MW735_231115	0937_MW737_231116	0937_MW738_231117
				Sampling date / time	23-Nov-2023 13:37	16-Nov-2023 08:23	15-Nov-2023 18:04	16-Nov-2023 10:37	17-Nov-2023 08:49
Compound	CAS Number	LOR	Unit		EM2320952-041	EM2320952-042	EM2320952-043	EM2320952-044	EM2320952-045
					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		**3.15**	**184**	**0.14**	**1.50**	**325**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**1.75**	**177**	**0.14**	**1.48**	**229**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**2.65**	**182**	**0.14**	**1.50**	**292**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**106**	**92.1**	**114**	**96.6**	**90.0**
13C8-PFOA	---	0.02	%		**100**	**93.2**	**100**	**101**	**93.2**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW739_231115	0937_MW740_231115	0937_MW741_231115	0937_QC100_231115	0937_QC101_231115
				Sampling date / time	15-Nov-2023 15:50	15-Nov-2023 10:55	15-Nov-2023 14:03	15-Nov-2023 08:29	15-Nov-2023 08:43
Compound	CAS Number	LOR	Unit		EM2320952-046	EM2320952-047	EM2320952-048	EM2320952-084	EM2320952-085
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**1.59**	**0.14**	<0.02	**0.49**	**37.1**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**1.24**	**0.19**	0 02	**0.48**	**29.1**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**5.30**	**1.33**	**0.05**	**2.59**	**196**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.42**	**0.11**	<0.02	**0.20**	**19.0**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**6.44**	**2.93**	**0.15**	**3.64**	**241**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		**0.2**	<0.1	<0.1	**0.1**	**2.3**
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.25**	**0.27**	<0.02	**0.12**	**9.52**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**1.25**	**0.43**	0 02	**0.52**	**50.6**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.21**	**0.10**	<0.02	**0.06**	**5.02**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.36**	**0.11**	<0.01	**0.12**	**10.7**
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	**0.13**
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0 02	µg/L		0 02	0 02	0 02	0 02	0 03
Perfluorododecanoic acid (PFDoDA)	307-55-1	0 02	µg/L		0 02	0 02	0 02	0 02	0 03
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0 02	µg/L		0 02	0 02	0 02	0 02	0 03
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0 05	µg/L		0 05	0 05	0 05	0 05	0 09
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW739_231115	0937_MW740_231115	0937_MW741_231115	0937_QC100_231115	0937_QC101_231115
				Sampling date / time	15-Nov-2023 15:50	15-Nov-2023 10:55	15-Nov-2023 14:03	15-Nov-2023 08:29	15-Nov-2023 08:43
Compound	CAS Number	LOR	Unit		EM2320952-046	EM2320952-047	EM2320952-048	EM2320952-084	EM2320952-085
					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	<0.09
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
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	**0.61**	<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		**17.3**	**6.22**	**0.20**	**8.32**	**600**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**11.7**	**4.26**	**0.20**	**6.23**	**437**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**15.6**	**5.92**	**0.20**	**7.64**	**552**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**83.6**	**112**	**76.5**	**110**	**89.0**
13C8-PFOA	---	0.02	%		**93.9**	**99.7**	**94.3**	**102**	**88.3**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_QC102_231115	0937_QC103_231115	0937_QC108_231115	0937_QC109_231115	0937_QC110_231116
				Sampling date / time	15-Nov-2023 09:04	15-Nov-2023 10:57	15-Nov-2023 17:51	15-Nov-2023 18:06	16-Nov-2023 08:24
Compound	CAS Number	LOR	Unit		EM2320952-086	EM2320952-087	EM2320952-093	EM2320952-094	EM2320952-099
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		0.09	0.20	0.14	0.57	1.18
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		0.04	0.16	0.08	0.50	1.12
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		0.32	1.27	0.59	2.05	16.2
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		0.04	0.11	0.07	0.05	1.17
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		1.79	3.38	1.47	0.18	169
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	0.08
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	0.1	0.4
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	0.22	0.04	0.12	0.65
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		0.06	0.44	0.11	0.52	1.99
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	0.10	<0.02	0.05	0.19
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		0.02	0.11	0.03	0.06	0.55
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_QC102_231115	0937_QC103_231115	0937_QC108_231115	0937_QC109_231115	0937_QC110_231116
				Sampling date / time	15-Nov-2023 09:04	15-Nov-2023 10:57	15-Nov-2023 17:51	15-Nov-2023 18:06	16-Nov-2023 08:24
Compound	CAS Number	LOR	Unit		EM2320952-086	EM2320952-087	EM2320952-093	EM2320952-094	EM2320952-099
					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	<0.09
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.09
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.03
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	**0.52**	<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		**2.36**	**6.51**	**2.53**	**4.20**	**192**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**2.11**	**4.65**	**2.06**	**2.23**	**185**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**2.28**	**6.24**	**2.38**	**3.65**	**190**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**103**	**92.3**	**89.3**	**83.0**	**90.4**
13C8-PFOA	---	0.02	%		**97.3**	**102**	**102**	**99.5**	**90.8**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW603_231116_02	----	----	----	----
				Sampling date / time	16-Nov-2023 12:57	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320952-136	--------	--------	--------	--------	
				Result	---	---	---	---	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	**0.27**	----	----	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	**0.23**	----	----	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	**1.44**	----	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	**0.06**	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	**0.68**	----	----	----	----	
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	**0.03**	----	----	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	**0.26**	----	----	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	----	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0 01	µg/L	**0.03**	----	----	----	----	
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	----	----	----	----	
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	----	----	----	----	

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW603_231116_02	----	----	----	----
				Sampling date / time	16-Nov-2023 12:57	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320952-136	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		**3.00**	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**2.12**	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**2.71**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**102**	----	----	----	----
13C8-PFOA	---	0.02	%		**98.6**	----	----	----	----

Analytical Results

Sub-Matrix: RINSATE (Matrix: WATER)				Sample ID	0937_QC300_231115	0937_QC302_231116	0937_QC304_231117	0937_QC306_231120	0937_QC406_231120
				Sampling date / time	15-Nov-2023 18:19	16-Nov-2023 18:44	17-Nov-2023 13:40	20-Nov-2023 17:08	20-Nov-2023 17:09
Compound	CAS Number	LOR	Unit		EM2320952-095	EM2320952-108	EM2320952-113	EM2320952-115	EM2320952-116
					Result	Result	Result	Result	Result
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		<0.01	<0.01	**0.05**	<0.01	<0.01
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		<0.01	<0.01	**0.11**	<0.01	<0.01
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	<0.02
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		<0.01	<0.01	<0.01	<0.01	<0.01
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: RINSATE (Matrix: WATER)				Sample ID	0937_QC300_231115	0937_QC302_231116	0937_QC304_231117	0937_QC306_231120	0937_QC406_231120
				Sampling date / time	15-Nov-2023 18:19	16-Nov-2023 18:44	17-Nov-2023 13:40	20-Nov-2023 17:08	20-Nov-2023 17:09
Compound	CAS Number	LOR	Unit		EM2320952-095	EM2320952-108	EM2320952-113	EM2320952-115	EM2320952-116
					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		<0.01	<0.01	**0.16**	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	**0.16**	<0.01	<0.01
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	<0.01	**0.16**	<0.01	<0.01
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**98.1**	**102**	**95.0**	**89.2**	**99.3**
13C8-PFOA	---	0.02	%		**103**	**101**	**105**	**99.5**	**100**

Analytical Results

Sub-Matrix: RINSATE (Matrix: WATER)				Sample ID	0937_QC308_231121	0937_QC310_231122	0937_QC312_231123	----	----
				Sampling date / time	21-Nov-2023 17:53	22-Nov-2023 16:29	23-Nov-2023 16:59	----	----
Compound	CAS Number	LOR	Unit		EM2320952-121	EM2320952-123	EM2320952-127	--------	--------
					Result	Result	Result	----	----
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		<0.01	<0.01	<0.01	----	----
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		<0.02	<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		<0.01	<0.01	<0.01	----	----
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	----	----
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	----	----

Analytical Results

Sub-Matrix: RINSATE (Matrix: WATER)				Sample ID	0937_QC308_231121	0937_QC310_231122	0937_QC312_231123	----	----
				Sampling date / time	21-Nov-2023 17:53	22-Nov-2023 16:29	23-Nov-2023 16:59	----	----
Compound	CAS Number	LOR	Unit		EM2320952-121	EM2320952-123	EM2320952-127	--------	--------
					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	----	----
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		<0.05	<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	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.01	µg/L		<0.01	<0.01	<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 PFAS (WA DER List)	---	0.01	µg/L		<0.01	<0.01	<0.01	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**96.5**	**99.7**	**101**	----	----
13C8-PFOA	---	0.02	%		**104**	**99.9**	**103**	----	----

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD201_231116	0937_SD209_231117	0937_SD217_231117	0937_SD223_231116	0937_SD226_231117
				Sampling date / time	16-Nov-2023 11:14	17-Nov-2023 10:18	17-Nov-2023 10:33	16-Nov-2023 14:43	17-Nov-2023 10:08
Compound	CAS Number	LOR	Unit		EM2320952-064	EM2320952-065	EM2320952-066	EM2320952-067	EM2320952-068
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	---	0.1	%		17.4	26.4	15.9	6.9	17.5
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		0.0003	0.0030	0.0017	<0.0004	0.0014
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		0.0005	0.0062	0.0025	<0.0004	0.0015
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0079	0.116	0.0506	0.0035	0.0203
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		0.0014	0.0301	0.0063	<0.0004	0.0019
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.174	0.975	1.08	0.0272	0.377
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		0.0033	0.0210	0.0202	<0.0004	0.0225
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	0.001	<0.002	0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0006	0.0024	0.0014	0.0011	0.0015
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0018	0.0116	0.0042	0.0023	0.0036
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0006	0.0022	0.0008	<0.0004	0.0005
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0014	0.0143	0.0032	<0.0004	0.0017
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0002	0.0003	0.0002	<0.0004	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0002	0.0003	<0.0004	<0.0002
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		<0.0002	0.0002	0.0002	<0.0004	0.0004
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	0.0009	0.0004	<0.0004	0.0007
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	0.0003	<0.0002	<0.0004	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0009	<0.0005
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		0.0012	0.0399	0.0163	0.0012	0.0196

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD201_231116	0937_SD209_231117	0937_SD217_231117	0937_SD223_231116	0937_SD226_231117
				Sampling date / time	16-Nov-2023 11:14	17-Nov-2023 10:18	17-Nov-2023 10:33	16-Nov-2023 14:43	17-Nov-2023 10:08
Compound	CAS Number	LOR	Unit		EM2320952-064	EM2320952-065	EM2320952-066	EM2320952-067	EM2320952-068
					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	<0.0009	**0.0008**
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0009	<0.0005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0009	<0.0005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0009	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0004	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0004	<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		<0.0005	**0.0005**	<0.0005	**0.0398**	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.193**	**1.22**	**1.19**	**0.0751**	**0.454**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.182**	**1.09**	**1.13**	**0.0307**	**0.397**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.187**	**1.12**	**1.14**	**0.0739**	**0.407**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**109**	**127**	**117**	**129**	**123**
13C8-PFOA	---	0.0002	%		**104**	**114**	**108**	**106**	**111**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD227_231116	0937_SD230_231115	0937_SD231_231120	0937_SD233_231116	0937_SD239_231117
			Sampling date / time	16-Nov-2023 18:38	15-Nov-2023 15:21	20-Nov-2023 16:16	16-Nov-2023 10:08	17-Nov-2023 10:53
Compound	CAS Number	LOR	Unit	EM2320952-069	EM2320952-070	EM2320952-071	EM2320952-072	EM2320952-073
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	**23.6**	**31.4**	**23.6**	**32.3**	**21.9**
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	**0.0006**	<0.0002	**0.0004**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	**0.0009**	**0.0002**	**0.0007**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	**0.0002**	**0.0007**	**0.0105**	**0.0047**	**0.0072**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	**0.0007**	**0.0004**	**0.0008**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0040**	**0.0159**	**0.0575**	**0.0486**	**0.0789**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	**0.0003**	**0.0012**	**0.0008**	**0.0170**
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	**0.0002**	<0.0002	<0.0002	**0.0002**
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	**0.0003**	**0.0004**	**0.0011**	**0.0004**	**0.0014**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	**0.0002**	<0.0002	<0.0002	<0.0002	**0.0003**
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	**0.0006**	<0.0002	**0.0003**	<0.0002	**0.0006**
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	**0.0003**
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	**0.0008**
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	**0.0006**
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	<0.0002	<0.0002	<0.0002	<0.0002	**0.0078**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD227_231116	0937_SD230_231115	0937_SD231_231120	0937_SD233_231116	0937_SD239_231117
				Sampling date / time	16-Nov-2023 18:38	15-Nov-2023 15:21	20-Nov-2023 16:16	16-Nov-2023 10:08	17-Nov-2023 10:53
Compound	CAS Number	LOR	Unit		EM2320952-069	EM2320952-070	EM2320952-071	EM2320952-072	EM2320952-073
					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	<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
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		<0.0005	**0.0028**	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0053**	**0.0203**	**0.0728**	**0.0551**	**0.118**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0042**	**0.0166**	**0.0680**	**0.0533**	**0.0861**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0053**	**0.0200**	**0.0700**	**0.0537**	**0.0890**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**112**	**123**	**116**	**122**	**127**
13C8-PFOA	---	0.0002	%		**121**	**110**	**115**	**116**	**112**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD242_231116	0937_SD246_231115	0937_SD247_231115	0937_SD249_231115	0937_SD251_231115
			Sampling date / time	16-Nov-2023 15:31	15-Nov-2023 14:33	15-Nov-2023 11:59	15-Nov-2023 18:05	15-Nov-2023 16:28
Compound	CAS Number	LOR	Unit	EM2320952-074	EM2320952-075	EM2320952-076	EM2320952-077	EM2320952-078
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	**17.0**	**44.5**	**31.8**	**31.1**	**37.7**
EP231A: 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	**0.0003**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	**0.0015**	**0.0035**	**0.0006**	**0.0008**	**0.0035**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	**0.0002**	**0.0006**	<0.0002	<0.0002	**0.0005**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0531**	**0.0796**	**0.0089**	**0.0215**	**0.0383**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	**0.0017**	**0.0018**	<0.0002	**0.0005**	**0.0007**
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	**0.0029**	**0.0007**	**0.0021**	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	**0.0002**	**0.0022**	**0.0005**	**0.0013**	**0.0004**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	**0.0010**	<0.0002	**0.0006**	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	**0.0003**	<0.0002	<0.0002	**0.0002**
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
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	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<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	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	**0.0007**	**0.0003**	<0.0002	<0.0002	<0.0002

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD242_231116	0937_SD246_231115	0937_SD247_231115	0937_SD249_231115	0937_SD251_231115
				Sampling date / time	16-Nov-2023 15:31	15-Nov-2023 14:33	15-Nov-2023 11:59	15-Nov-2023 18:05	15-Nov-2023 16:28
Compound	CAS Number	LOR	Unit		EM2320952-074	EM2320952-075	EM2320952-076	EM2320952-077	EM2320952-078
					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	<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
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		<0.0005	**0.0055**	**0.0032**	**0.0033**	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0574**	**0.0977**	**0.0139**	**0.0301**	**0.0441**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0546**	**0.0831**	**0.0095**	**0.0223**	**0.0418**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0548**	**0.0950**	**0.0139**	**0.0296**	**0.0426**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**129**	**117**	**131**	**130**	**118**
13C8-PFOA	---	0.0002	%		**111**	**109**	**124**	**115**	**123**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD256_231120	0937_SD257_231120	0937_SD258_231116	0937_SD259_231116	0937_SD260_231116
				Sampling date / time	20-Nov-2023 15:31	20-Nov-2023 14:03	16-Nov-2023 17:16	16-Nov-2023 16:44	16-Nov-2023 17:39
Compound	CAS Number	LOR	Unit		EM2320952-079	EM2320952-080	EM2320952-081	EM2320952-082	EM2320952-083
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	---	0.1	%		24.5	29.0	24.2	22.8	25.0
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		0.0002	<0.0002	0.0002	<0.0002	0.0004
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	0.0002	<0.0002	0.0005
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0026	0.0027	0.0025	0.0027	0.0076
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		0.0004	0.0006	<0.0002	0.0003	0.0011
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0600	0.0766	0.0250	0.0683	0.0762
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		0.0084	0.0013	0.0004	0.0051	0.0017
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0003	<0.0002	0.0004	<0.0002	0.0005
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0006	0.0004	0.0006	0.0003	0.0010
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	0.0006
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0003	<0.0002	<0.0002	<0.0002	0.0006
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
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	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	<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	<0.0005
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		0.0010	0.0007	<0.0002	0.0004	<0.0002

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD256_231120	0937_SD257_231120	0937_SD258_231116	0937_SD259_231116	0937_SD260_231116
				Sampling date / time	20-Nov-2023 15:31	20-Nov-2023 14:03	16-Nov-2023 17:16	16-Nov-2023 16:44	16-Nov-2023 17:39
Compound	CAS Number	LOR	Unit		EM2320952-079	EM2320952-080	EM2320952-081	EM2320952-082	EM2320952-083
					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	<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
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		**0.0006**	**0.0008**	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0744**	**0.0831**	**0.0293**	**0.0771**	**0.0902**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0626**	**0.0793**	**0.0275**	**0.0710**	**0.0838**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0646**	**0.0805**	**0.0287**	**0.0713**	**0.0869**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**132**	**130**	**132**	**126**	**130**
13C8-PFOA	---	0.0002	%		**114**	**127**	**120**	**117**	**122**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_QC106_231115	0937_QC111_231116	0937_QC112_231116	0937_QC113_231116	0937_QC116_231116
			Sampling date / time	15-Nov-2023 15:22	16-Nov-2023 15:32	16-Nov-2023 16:44	16-Nov-2023 17:15	16-Nov-2023 18:39
Compound	CAS Number	LOR	Unit	EM2320952-090	EM2320952-100	EM2320952-101	EM2320952-102	EM2320952-107
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	30.6	18.7	22.0	22.8	24.6
EP231A: 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	0.0004	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0009	0.0020	0.0022	0.0052	0.0002
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.0004	<0.0002	0.0007	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0170	0.0682	0.0334	0.0816	0.0036
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	0.0003	0.0023	0.0014	0.0013	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0002	<0.0002	<0.0002	0.0005	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0004	0.0002	0.0003	0.0008	0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	0.0003	0.0003
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	0.0004	0.0007
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
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	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<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	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.0009	<0.0002	<0.0002	<0.0002

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_QC106_231115	0937_QC111_231116	0937_QC112_231116	0937_QC113_231116	0937_QC116_231116
				Sampling date / time	15-Nov-2023 15:22	16-Nov-2023 15:32	16-Nov-2023 16:44	16-Nov-2023 17:15	16-Nov-2023 18:39
Compound	CAS Number	LOR	Unit		EM2320952-090	EM2320952-100	EM2320952-101	EM2320952-102	EM2320952-107
					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	<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
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		**0.0029**	<0.0005	<0.0005	**0.0006**	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0217**	**0.0740**	**0.0373**	**0.0920**	**0.0050**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0179**	**0.0702**	**0.0356**	**0.0868**	**0.0038**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0214**	**0.0704**	**0.0359**	**0.0896**	**0.0050**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**127**	**123**	**121**	**129**	**129**
13C8-PFOA	---	0.0002	%		**120**	**128**	**121**	**117**	**124**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW203_231116	0937_SW209_231117	0937_SW223_231116	0937_SW227_231116	0937_SW230_231115
				Sampling date / time	16-Nov-2023 10:58	17-Nov-2023 10:15	16-Nov-2023 13:51	16-Nov-2023 18:37	15-Nov-2023 15:18
Compound	CAS Number	LOR	Unit		EM2320952-049	EM2320952-050	EM2320952-051	EM2320952-052	EM2320952-053
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.20**	**1.48**	**0.05**	**0.05**	**0.03**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**0.24**	**0.75**	**0.03**	**0.04**	**0.02**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**2.38**	**4.52**	**0.28**	**0.29**	**0.24**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.11**	**0.45**	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**6.40**	**12.7**	**0.46**	**0.70**	**0.42**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		**0.02**	**0.16**	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	**0.4**	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.11**	**0.43**	**0.32**	**0.14**	**0.55**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.58**	**1.25**	**0.54**	**0.17**	**0.46**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.04**	**0.15**	**0.05**	**0.07**	**0.06**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.07**	**0.34**	**0.01**	**0.07**	**0.01**
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		**0.03**	**0.18**	<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: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW203_231116	0937_SW209_231117	0937_SW223_231116	0937_SW227_231116	0937_SW230_231115
				Sampling date / time	16-Nov-2023 10:58	17-Nov-2023 10:15	16-Nov-2023 13:51	16-Nov-2023 18:37	15-Nov-2023 15:18
Compound	CAS Number	LOR	Unit		EM2320952-049	EM2320952-050	EM2320952-051	EM2320952-052	EM2320952-053
					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	**0.08**	**4.55**	<0.05	**1.84**
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		**10.2**	**22.9**	**6.29**	**1.53**	**3.63**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**8.78**	**17.2**	**0.74**	**0.99**	**0.66**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**9.78**	**21.4**	**6.26**	**1.49**	**3.61**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**95.9**	**95.0**	**99.0**	**98.8**	**103**
13C8-PFOA	---	0.02	%		**99.8**	**93.4**	**105**	**103**	**100**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW231_231120	0937_SW233_231116	0937_SW238_231120	0937_SW239_231117	0937_SW246_231115
				Sampling date / time	20-Nov-2023 16:15	16-Nov-2023 10:03	20-Nov-2023 15:06	17-Nov-2023 11:40	15-Nov-2023 14:33
Compound	CAS Number	LOR	Unit		EM2320952-054	EM2320952-055	EM2320952-056	EM2320952-057	EM2320952-058
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		0.45	0.32	0.32	0.66	0.07
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		0.69	0.46	0.37	0.70	0.07
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		6.27	3.39	2.60	5.50	0.61
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		0.27	0.14	0.10	0.51	0.04
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		6.13	2.49	1.78	13.8	0.97
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	0.17	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.2	0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		0.11	0.09	0.07	0.20	1.22
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		0.72	0.47	0.39	0.90	1.10
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		0.07	0.04	0.04	0.16	0.33
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		0.18	0.09	0.07	0.30	0.04
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.09	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.02	0.06	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.09	<0.05

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW231_231120	0937_SW233_231116	0937_SW238_231120	0937_SW239_231117	0937_SW246_231115
				Sampling date / time	20-Nov-2023 16:15	16-Nov-2023 10:03	20-Nov-2023 15:06	17-Nov-2023 11:40	15-Nov-2023 14:33
Compound	CAS Number	LOR	Unit		EM2320952-054	EM2320952-055	EM2320952-056	EM2320952-057	EM2320952-058
					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	<0.09	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.09	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.09	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.03	<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	**0.11**	**2.57**
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		**14.9**	**7.49**	**5.74**	**23.1**	**7.12**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**12.4**	**5.88**	**4.38**	**19.3**	**1.58**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**13.9**	**6.89**	**5.27**	**21.6**	**7.01**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**102**	**99.0**	**109**	**96.7**	**92.2**
13C8-PFOA	---	0.02	%		**104**	**101**	**101**	**96.1**	**99.6**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW251_231115	0937_SW252_231115	0937_SW256_231123	0937_SW257_231120	0937_SW258_231116
				Sampling date / time	15-Nov-2023 16:24	15-Nov-2023 14:35	23-Nov-2023 15:48	20-Nov-2023 14:03	16-Nov-2023 17:14
Compound	CAS Number	LOR	Unit		EM2320952-059	EM2320952-060	EM2320952-061	EM2320952-062	EM2320952-063
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.41**	<0.02	**0.71**	**0.80**	**0.51**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		**0.49**	<0.02	**0.94**	**0.97**	**0.63**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		**3.32**	**0.17**	**5.46**	**5.56**	**3.82**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		**0.20**	<0.02	**0.30**	**0.34**	**0.23**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0 01	µg/L		**4.74**	**0.60**	**6.12**	**5.40**	**4.25**
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0 02	µg/L		0 02	0 02	0 04	0 02	0 02
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.2	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.18**	**0.05**	**0.26**	**0.27**	**0.22**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.58**	**0.03**	**0.93**	**0.98**	**0.71**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.10**	<0.02	**0.15**	**0.16**	**0.12**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.16**	<0.01	**0.26**	**0.26**	**0.16**
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.10	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.10	<0.05	<0.05

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW251_231115	0937_SW252_231115	0937_SW256_231123	0937_SW257_231120	0937_SW258_231116
				Sampling date / time	15-Nov-2023 16:24	15-Nov-2023 14:35	23-Nov-2023 15:48	20-Nov-2023 14:03	16-Nov-2023 17:14
Compound	CAS Number	LOR	Unit		EM2320952-059	EM2320952-060	EM2320952-061	EM2320952-062	EM2320952-063
					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	<0.10	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.10	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.10	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	<0.04	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	<0.04	<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		**0.11**	<0.05	**0.08**	**0.09**	**0.09**
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		**10.3**	**0.85**	**15.2**	**14.8**	**10.7**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**8.06**	**0.77**	**11.6**	**11.0**	**8.07**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**9.60**	**0.85**	**14.0**	**13.5**	**9.88**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**108**	**94.9**	**101**	**100**	**108**
13C8-PFOA	---	0.02	%		**98.5**	**99.9**	**96.0**	**102**	**102**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_QC104_231115	0937_QC105_231115	0937_SW351_231115	0937_QC107_231115	0937_QC114_231116
				Sampling date / time	15-Nov-2023 14:36	15-Nov-2023 15:19	15-Nov-2023 15:55	15-Nov-2023 16:27	16-Nov-2023 17:17
Compound	CAS Number	LOR	Unit		EM2320952-088	EM2320952-089	EM2320952-091	EM2320952-092	EM2320952-103
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.05**	**0.03**	**0.04**	**0.50**	**0.58**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		<0.02	**0.02**	**0.02**	**0.48**	**0.55**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**0.15**	**0.21**	**0.23**	**3.30**	**3.59**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0 02	µg/L		**0.02**	0 02	0 02	**0.27**	**0.21**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.61**	**0.42**	**0.70**	**6.15**	**4.65**
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		**0.04**	**0.44**	**0.53**	**0.15**	**0.19**
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.04**	**0.47**	**0.55**	**0.58**	**0.69**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	**0.07**	**0.12**	**0.12**	**0.12**
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.01**	**0.01**	**0.02**	**0.17**	**0.16**
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: SURFACE WATER (Matrix: WATER)				Sample ID	0937_QC104_231115	0937_QC105_231115	0937_SW351_231115	0937_QC107_231115	0937_QC114_231116
				Sampling date / time	15-Nov-2023 14:36	15-Nov-2023 15:19	15-Nov-2023 15:55	15-Nov-2023 16:27	16-Nov-2023 17:17
Compound	CAS Number	LOR	Unit		EM2320952-088	EM2320952-089	EM2320952-091	EM2320952-092	EM2320952-103
					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	**1.84**	**1.70**	**0.11**	**0.10**
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		**0.92**	**3.51**	**4.01**	**11.8**	**10.8**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.76**	**0.63**	**0.93**	**9.45**	**8.24**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.90**	**3.49**	**3.99**	**11.1**	**10.1**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**111**	**99.4**	**98.4**	**108**	**88.4**
13C8-PFOA	---	0.02	%		**102**	**101**	**100**	**101**	**102**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_QC115_231116	0937_QC117_231117	----	----	----
				Sampling date / time	16-Nov-2023 18:38	17-Nov-2023 10:16	----	----	----
Compound	CAS Number	LOR	Unit		EM2320952-106	EM2320952-110	--------	--------	--------
					Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.06**	**1.04**	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		**0.05**	**0.68**	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**0.34**	**4.41**	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		0 02	**0.38**	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.71**	**15.2**	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	**0.17**	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	**0.4**	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		**0.12**	**0.51**	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.17**	**1.17**	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.07**	**0.18**	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.06**	**0.40**	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.04	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.04	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.04	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.04	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.04	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.09	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	**0.12**	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.09	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_QC115_231116	0937_QC117_231117	----	----	----
				Sampling date / time	16-Nov-2023 18:38	17-Nov-2023 10:16	----	----	----
Compound	CAS Number	LOR	Unit		EM2320952-106	EM2320952-110	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.09	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.09	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.09	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.04	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.04	----	----	----
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	**0.11**	----	----	----
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		**1.58**	**24.8**	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**1.05**	**19.6**	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**1.53**	**23.4**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**95.6**	**97.2**	----	----	----
13C8-PFOA	---	0.02	%		**99.9**	**91.8**	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	0937_QC400_231115 field blank	0937_QC402_231116	0937_QC404_231117	0937_QC408_231121	0937_QC410_231122
				Sampling date / time	15-Nov-2023 18:20	16-Nov-2023 18:45	17-Nov-2023 13:41	21-Nov-2023 17:53	22-Nov-2023 16:30
Compound	CAS Number	LOR	Unit		EM2320952-096	EM2320952-109	EM2320952-114	EM2320952-122	EM2320952-126
					Result	Result	Result	Result	Result
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		<0.01	<0.01	<0.01	<0.01	<0.01
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		<0.01	<0.01	<0.01	<0.01	<0.01
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	<0.02
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		<0.01	<0.01	<0.01	<0.01	<0.01
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: WATER (Matrix: WATER)				Sample ID	0937_QC400_231115 field blank	0937_QC402_231116	0937_QC404_231117	0937_QC408_231121	0937_QC410_231122
				Sampling date / time	15-Nov-2023 18:20	16-Nov-2023 18:45	17-Nov-2023 13:41	21-Nov-2023 17:53	22-Nov-2023 16:30
Compound	CAS Number	LOR	Unit		EM2320952-096	EM2320952-109	EM2320952-114	EM2320952-122	EM2320952-126
					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		<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**93.9**	**101**	**106**	**103**	**98.6**
13C8-PFOA	---	0.02	%		**101**	**100**	**106**	**102**	**103**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	0937_QC412_231123	0937_QC500_231124	0937_QC501_231124	0937_QC502_231124	0937_QC503_231124
				Sampling date / time	23-Nov-2023 17:00	24-Nov-2023 08:55	24-Nov-2023 08:55	24-Nov-2023 08:56	24-Nov-2023 08:57
Compound	CAS Number	LOR	Unit		EM2320952-128	EM2320952-131	EM2320952-132	EM2320952-133	EM2320952-134
					Result	Result	Result	Result	Result
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		<0.01	<0.01	<0.01	<0.01	<0.01
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		<0.01	<0.01	<0.01	<0.01	<0.01
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	<0.02
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		<0.01	<0.01	<0.01	<0.01	<0.01
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: WATER (Matrix: WATER)				Sample ID	0937_QC412_231123	0937_QC500_231124	0937_QC501_231124	0937_QC502_231124	0937_QC503_231124
				Sampling date / time	23-Nov-2023 17:00	24-Nov-2023 08:55	24-Nov-2023 08:55	24-Nov-2023 08:56	24-Nov-2023 08:57
Compound	CAS Number	LOR	Unit		EM2320952-128	EM2320952-131	EM2320952-132	EM2320952-133	EM2320952-134
					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		<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**110**	**101**	**105**	**106**	**107**
13C8-PFOA	---	0.02	%		**105**	**100**	**104**	**103**	**105**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	0937_QC504_231124	----	----	----	----
				Sampling date / time	24-Nov-2023 08:57	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320952-135	--------	--------	--------	--------	
				Result	---	---	---	---	
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 01	----	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	----	----	----	----	
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	<0.01	----	----	----	----	
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	----	----	----	----	
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	----	----	----	----	

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	0937_QC504_231124	----	----	----	----
				Sampling date / time	24-Nov-2023 08:57	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320952-135	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		102	----	----	----	----
13C8-PFOA	---	0.02	%		104	----	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Sub-Matrix: RINSATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Sub-Matrix: SEDIMENT		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	68	136
13C8-PFOA	---	69	133

Sub-Matrix: SURFACE WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320952**	Page	: 1 of 41
Amendment	: **1**		
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60111	Issue Date	: 14-Dec-2023
Sampler	: [redacted]		
Site	: Base		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 136		
No. of samples analysed	: 122		

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*
[redacted]	Metals Team Leader	Melbourne Inorganics, Springvale, VIC
[redacted]	LCMS Coordinator	Melbourne Organics, Springvale, VIC
[redacted]	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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: 5456806)									
EM2320952-064	0937_SD201_231116	EA055: Moisture Content	---	0.1	%	17.4	17.7	2.2	0% - 20%
EM2320952-074	0937_SD242_231116	EA055: Moisture Content	---	0.1	%	17.0	17.6	3.5	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5456807)									
EM2320952-090	0937_QC106_231115	EA055: Moisture Content	---	0.1	%	30.6	30.5	0.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5460930)									
EM2320952-064	0937_SD201_231116	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0079	0.0083	5.1	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0014	0.0014	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.174	0.177	1.6	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335 77 3	0 0002	mg/kg	0 0033	0 0036	9 4	0% 50%
EM2320952-075	0937_SD246_231115	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0035	0.0039	9.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0006	0.0006	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763 23 1	0 0002	mg/kg	0 0796	0 0766	3 8	0% 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	0.0018	0.0018	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5460937)									
EM2320952-100	0937_QC111_231116	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5460937) - continued									
EM2320952-100	0937_QC111_231116	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0020	0.0016	22.8	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0004	0.0003	32.2	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0682	0.0584	15.5	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	0.0023	0.0021	10.2	0% - 50%
EM2321120-005	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0046	0.0054	15.1	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5462806)									
EM2320952-067	0937_SD223_231116	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002 (0.0004)*	mg/kg	0.0035	0.0028	22.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002 (0.0004)*	mg/kg	0.0272	0.0244	10.7	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5460930)									
EM2320952-064	0937_SD201_231116	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0006	0.0006	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0018	0.0020	6.2	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0006	0.0005	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0014	0.0014	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320952-075	0937_SD246_231115	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0029	0.0030	0.0	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0022	0.0020	8.2	0% - 50%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0010	0.0010	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5460930) - continued									
EM2320952-075	0937_SD246_231115	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5460937)									
EM2320952-100	0937_QC111_231116	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335 67 1	0 0002	mg/kg	0 0002	0 0002	0 0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2321120-005	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5462806)									
EM2320952-067	0937_SD223_231116	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002 (0.0004)*	mg/kg	0.0011	0.0014	30.6	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002 (0.0004)*	mg/kg	0.0023	0.0028	20.9	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5462806) - continued									
EM2320952-067	0937_SD223_231116	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005 (0.0010)*	mg/kg	<0.0009	<0.0010	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001 (0.002)*	mg/kg	<0.002	<0.002	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5460930)									
EM2320952-064	0937_SD201_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	0.0012	0.0012	0.0	No Limit
		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
EM2320952-075	0937_SD246_231115	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		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

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: 5460930) - continued									
EM2320952-075	0937_SD246_231115	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5460937)									
EM2320952-100	0937_QC111_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	0.0009	0.0009	0.0	No Limit
		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
EM2321120-005	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5462806)									
EM2320952-067	0937_SD223_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002 (0.0004)*	mg/kg	0.0012	0.0008	35.9	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002 (0.0004)*	mg/kg	<0.0004	<0.0004	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005 (0.0010)*	mg/kg	<0.0009	<0.0010	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005 (0.0010)*	mg/kg	<0.0009	<0.0010	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5462806) - continued									
EM2320952-067	0937_SD223_231116	EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005 (0.0010)*	mg/kg	<0.0009	<0.0010	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005 (0.0010)*	mg/kg	<0.0009	<0.0010	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5460930)									
EM2320952-064	0937_SD201_231116	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320952-075	0937_SD246_231115	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	0.0055	0.0050	9.0	0% - 50%
		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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5460937)									
EM2320952-100	0937_QC111_231116	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2321120-005	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5462806)									
EM2320952-067	0937_SD223_231116	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5462806) - continued									
EM2320952-067	0937_SD223_231116	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0398	0.0460	14.5	0% - 20%
		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
EP231P: PFAS Sums (QC Lot: 5460930)									
EM2320952-064	0937_SD201_231116	EP231X: Sum of PFAS	---	0.0002	mg/kg	0.193	0.197	1.9	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.182	0.185	1.9	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	0.187	0.190	1.9	0% - 20%
EM2320952-075	0937_SD246_231115	EP231X: Sum of PFAS	---	0.0002	mg/kg	0.0977	0.0945	3.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0831	0.0805	3.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	0.0950	0.0918	3.4	0% - 20%
EP231P: PFAS Sums (QC Lot: 5460937)									
EM2320952-100	0937_QC111_231116	EP231X Sum of PFAS	---	0.0002	mg/kg	0.0740	0.0633	15.6	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0702	0.0600	15.7	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	0.0704	0.0600	16.0	0% - 20%
EM2321120-005	Anonymous	EP231X Sum of PFAS	---	0.0002	mg/kg	0.0046	0.0054	16.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0046	0.0054	16.0	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	0.0046	0.0054	16.0	0% - 20%
EP231P: PFAS Sums (QC Lot: 5462806)									
EM2320952-067	0937_SD223_231116	EP231X: Sum of PFAS	---	0.0002 (0.0004)*	mg/kg	0.0751	0.0782	4.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002 (0.0004)*	mg/kg	0.0307	0.0272	12.1	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.0002 (0.0004)*	mg/kg	0.0739	0.0774	4.6	0% - 20%

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5454904)									
EM2320952-004	0937_MW315_231116	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01 (0.36)*	µg/L	165	180	8.4	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01 (0.04)*	µg/L	52.5	53.2	1.2	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02 (0.04)*	µg/L	32.5	31.5	3.0	0% - 20%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02 (0.36)*	µg/L	36.3	34.2	6.0	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375 92 8	0 02 (0 36)*	µg/L	7 58	8 72	13 9	0% 20%

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 (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5454904) - continued									
EM2320952-004	0937_MW315_231116	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
EM2320952-006	0937_MW324_231115	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01 (0.04)*	µg/L	64.4	60.7	5.9	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01 (0.04)*	µg/L	41.9	44.8	6.7	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02 (0.04)*	µg/L	12.0	11.6	3.5	0% - 20%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02 (0.04)*	µg/L	15.9	15.5	2.3	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02 (0.04)*	µg/L	5.66	4.70	18.5	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5454906)									
EM2320952-017	0937_MW626_231115	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	4.52	4.37	3.4	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.76	0.73	3.2	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	1.53	1.50	2.0	0% - 20%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	1.24	1.21	1.8	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.03	0.03	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2320952-022	0937_MW702_231115	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	4.85	5.10	5.0	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	10.7	9.93	7.5	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.95	0.86	9.4	0% - 20%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.82	0.84	2.9	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.41	0.36	11.3	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5454908)									
EM2320952-035	0937_MW724_231116	EP231X Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	3.16	3.36	6.4	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.30	0.31	0.0	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	2.39	2.41	1.1	0% - 20%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	1.85	1.78	4.0	0% - 20%
		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
EM2320952-036	0937_MW725_231115	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	7.13	6.60	7.8	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	4.91	4.70	4.4	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.85	0.76	10.6	0% - 20%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	1.11	1.18	5.7	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.45	0.50	10.8	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5454911)									
EM2320952 046	0937 MW739 231115	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355 46 4	0 01	µg/L	5 30	4 98	6 2	0% 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	6.44	7.34	13.1	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	1.59	1.53	3.9	0% - 20%

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5454911) - continued									
EM2320952-046	0937_MW739_231115	EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	1.24	1.23	1.0	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.42	0.43	0.0	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2320952-048	0937_MW741_231115	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.05	0.04	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.15	0.11	27.7	0% - 50%
		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
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5456545)									
EM2320952-051	0937_SW223_231116	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.28	0.27	4.7	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.46	0.45	0.0	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375 73 5	0 02	µg/L	0 05	0 05	0 0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.03	0.03	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
EM2320952-056	0937_SW238_231120	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	2.60	2.58	0.8	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	1.78	1.82	2.5	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.32	0.31	4.5	0% - 50%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.37	0.33	10.5	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.10	0.09	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5456546)									
EM2320952-057	0937_SW239_231117	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01 (0.03)*	µg/L	5.50	5.08	8.1	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01 (0.03)*	µg/L	13.8	11.6	16.8	0% - 20%
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02 (0.03)*	µg/L	0.66	0.67	0.0	0% - 50%
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02 (0.03)*	µg/L	0.70	0.72	3.6	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02 (0.03)*	µg/L	0.51	0.36	35.3	0% - 50%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02 (0.03)*	µg/L	0.17	0.09	61.5	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5454904)									
EM2320952-004	0937_MW315_231116	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01 (0.04)*	µg/L	5.94	5.90	0.7	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02 (0.04)*	µg/L	10.8	10.7	0.6	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02 (0.04)*	µg/L	50.8	51.3	1.0	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02 (0.04)*	µg/L	4.85	4.72	2.7	0% - 20%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5454904) - continued									
EM2320952-004	0937_MW315_231116	EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05 (0.09)*	µg/L	<0.09	<0.09	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1 (0.2)*	µg/L	3.6	3.3	7.6	0% - 50%
EM2320952-006	0937_MW324_231115	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	3.98	4.01	0.8	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	3.31	3.35	1.2	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02 (0.04)*	µg/L	15.0	14.8	1.9	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	2.58	2.52	2.2	0% - 20%
		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 (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	1.6	1.5	8.4	0% - 50%
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5454906)									
EM2320952-017	0937_MW626_231115	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.12	0.12	0.0	0% - 50%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	1.40	1.40	0.0	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	2.00	2.00	0.0	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.79	0.74	5.9	0% - 20%
		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 (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	0.5	0.4	0.0	No Limit
EM2320952-022	0937_MW702_231115	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.37	0.38	4.2	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.18	0.20	8.3	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.90	1.01	11.5	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.18	0.17	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 (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	0.1	<0.1	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5454908)									
EM2320952-035	0937_MW724_231116	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.03	0.03	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.43	0.42	2.6	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	2.78	2.78	0.0	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.06	0.06	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 (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	0.1	0.1	0.0	No Limit
EM2320952-036	0937_MW725_231115	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.38	0.40	5.5	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.28	0.26	6.3	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	1.27	1.26	0.0	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.20	0.20	0.0	0% - 50%
		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 (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	0.1	0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5454911)									
EM2320952-046	0937_MW739_231115	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.36	0.38	5.2	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.25	0.26	0.0	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	1.25	1.44	14.5	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.21	0.23	8.2	0% - 50%
		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 (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
EM2320952-048	0937_MW741_231115	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 (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5454911) - continued									
EM2320952-048	0937_MW741_231115	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 (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	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5456545)									
EM2320952-051	0937_SW223_231116	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	0.32	0.31	4.5	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.54	0.52	2.8	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375 85 9	0 02	µg/L	0 05	0 05	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 (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	<0.1	<0.1	0.0	No Limit
EM2320952-056	0937_SW238_231120	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.07	0.07	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.07	0.08	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.39	0.39	0.0	0% - 50%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.04	0.04	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 (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	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5456546)									
EM2320952-057	0937_SW239_231117	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01 (0.03)*	µg/L	0.30	0.31	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02 (0.03)*	µg/L	0.20	0.21	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02 (0.03)*	µg/L	0.90	0.85	4.8	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02 (0.03)*	µg/L	0.16	0.14	8.3	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5456546) - continued									
EM2320952-057	0937_SW239_231117	EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05 (0.08)*	µg/L	<0.09	<0.08	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1 (0.2)*	µg/L	<0.2	<0.2	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5454904)									
EM2320952-004	0937_MW315_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02 (0.04)*	µg/L	<0.04	<0.04	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05 (0.09)*	µg/L	<0.09	<0.09	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05 (0.09)*	µg/L	<0.09	<0.09	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05 (0.09)*	µg/L	<0.09	<0.09	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05 (0.09)*	µg/L	<0.09	<0.09	0.0	No Limit
EM2320952-006	0937_MW324_231115	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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5454906)									
EM2320952-017	0937_MW626_231115	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

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 (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5454906) - continued									
EM2320952-017	0937_MW626_231115	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
EM2320952-022	0937_MW702_231115	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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5454908)									
EM2320952-035	0937_MW724_231116	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
EM2320952-036	0937_MW725_231115	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

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5454908) - continued									
EM2320952-036	0937_MW725_231115	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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5454911)									
EM2320952-046	0937_MW739_231115	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
EM2320952-048	0937_MW741_231115	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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5456545)									
EM2320952-051	0937_SW223_231116	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

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5456545) - continued									
EM2320952-051	0937_SW223_231116	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
EM2320952-056	0937_SW238_231120	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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5456546)									
EM2320952-057	0937_SW239_231117	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02 (0.03)*	µg/L	0.06	0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02 (0.03)*	µg/L	<0.03	<0.03	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05 (0.08)*	µg/L	<0.09	<0.08	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05 (0.08)*	µg/L	<0.09	<0.08	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05 (0.08)*	µg/L	<0.09	<0.08	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05 (0.08)*	µg/L	<0.09	<0.08	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5454904)									
EM2320952-004	0937_MW315_231116	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

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5454904) - continued									
EM2320952-004	0937_MW315_231116	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
EM2320952-006	0937_MW324_231115	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5454906)									
EM2320952-017	0937_MW626_231115	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	0.22	0.24	8.8	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
EM2320952-022	0937_MW702_231115	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5454908)									
EM2320952-035	0937_MW724_231116	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
EM2320952-036	0937_MW725_231115	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 (%)*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5454908) - continued									
EM2320952-036	0937_MW725_231115	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5454911)									
EM2320952-046	0937_MW739_231115	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
EM2320952-048	0937_MW741_231115	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5456545)									
EM2320952-051	0937_SW223_231116	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	4.55	4.36	4.1	0% - 20%
		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
EM2320952-056	0937_SW238_231120	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5456546)									

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5456546) - continued									
EM2320952-057	0937_SW239_231117	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	0.11	0.12	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
EP231P: PFAS Sums (QC Lot: 5454904)									
EM2320952-004	0937_MW315_231116	EP231X: Sum of PFAS	---	0.01 (0.36)*	µg/L	370	384	3.6	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01 (0.36)*	µg/L	218	233	7.0	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.01 (0.36)*	µg/L	326	341	4.4	0% - 20%
EM2320952-006	0937_MW324_231115	EP231X: Sum of PFAS	---	0.01 (0.04)*	µg/L	166	163	1.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01 (0.04)*	µg/L	106	106	0.8	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.01 (0.04)*	µg/L	145	143	1.0	0% - 20%
EP231P: PFAS Sums (QC Lot: 5454906)									
EM2320952-017	0937_MW626_231115	EP231X: Sum of PFAS	---	0.01	µg/L	13.1	12.7	2.9	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	5.28	5.10	3.5	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.01	µg/L	11.8	11.5	2.9	0% - 20%
EM2320952-022	0937_MW702_231115	EP231X: Sum of PFAS	---	0.01	µg/L	19.5	18.8	3.2	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	15.6	15.0	3.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.01	µg/L	18.2	17.6	3.2	0% - 20%
EP231P: PFAS Sums (QC Lot: 5454908)									
EM2320952-035	0937_MW724_231116	EP231X: Sum of PFAS	---	0.01	µg/L	11.1	11.2	1.2	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	3.46	3.67	5.9	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.01	µg/L	9.25	9.47	2.4	0% - 20%
EM2320952-036	0937_MW725_231115	EP231X: Sum of PFAS	---	0.01	µg/L	16.7	16.0	4.4	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	12.0	11.3	6.3	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	---	0.01	µg/L	15.1	14.3	5.7	0% - 20%
EP231P: PFAS Sums (QC Lot: 5454911)									
EM2320952-046	0937_MW739_231115	EP231X: Sum of PFAS	---	0.01	µg/L	17.3	18.0	4.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	11.7	12.3	4.8	0% - 20%

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 (%)*
EP231P: PFAS Sums (QC Lot: 5454911) - continued									
EM2320952-046	0937_MW739_231115	EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	15.6	16.4	4.8	0% - 20%
EM2320952-048	0937_MW741_231115	EP231X: Sum of PFAS	----	0.01	µg/L	0.20	# 0.15	28.6	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.20	# 0.15	28.6	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	0.20	# 0.15	28.6	0% - 20%
EP231P: PFAS Sums (QC Lot: 5456545)									
EM2320952-051	0937_SW223_231116	EP231X: Sum of PFAS	----	0.01	µg/L	6.29	6.05	3.9	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.74	0.72	2.7	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	6.26	6.02	3.9	0% - 20%
EM2320952-056	0937_SW238_231120	EP231X: Sum of PFAS	----	0.01	µg/L	5.74	5.71	0.5	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	4.38	4.40	0.5	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	5.27	5.29	0.4	0% - 20%
EP231P: PFAS Sums (QC Lot: 5456546)									
EM2320952-057	0937_SW239_231117	EP231X: Sum of PFAS	----	0.01 (0.03)*	µg/L	23.1	20.2	13.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01 (0.03)*	µg/L	19.3	16.7	14.6	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.01 (0.03)*	µg/L	21.6	19.0	13.1	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5460930)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	91.6	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	108	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	102	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	102	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	101	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	97.3	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5460937)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	90.5	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	109	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	107	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	108	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	95.9	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	102	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5462806)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	78.6	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	105	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	97.3	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	105	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	92.3	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	107	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5460930)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.7	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.5	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.2	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.1	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100.0	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	105	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.9	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	86.8	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	69.0	135

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5460930) - continued								
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	80.3	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
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5460937)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	86.4	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.0	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.6	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.8	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.0	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	105	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.0	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.4	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.7	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	77.3	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	87.5	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5462806)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	76.9	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.7	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	105	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	85.6	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.7	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.3	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	75.6	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.5	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	86.0	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	68.7	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.9	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5460930)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.6	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	103	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.1	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	83.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	90.3	70.0	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5460930) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.5	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.9	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5460937)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.1	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	104	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	93.6	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	102	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.1	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5462806)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	87.0	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	88.6	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.4	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	113	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.9	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5460930)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	95.3	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	97.5	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	83.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5460937)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	103	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	100	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	101	65.0	137

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5460937) - continued								
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	82.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5462806)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	97.3	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	106	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	97.2	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	74.7	70.0	130
EP231P: PFAS Sums (QCLot: 5460930)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231P: PFAS Sums (QCLot: 5460937)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231P: PFAS Sums (QCLot: 5462806)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454904)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	90.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	106	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	95.2	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.6	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	93.6	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	81.0	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454906)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	117	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	106	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	87.7	68.0	131

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454906) - continued								
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	92.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	100	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	80.2	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454908)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	88.2	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	93.4	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	85.9	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	94.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	93.7	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	92.6	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454911)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	110	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	91.6	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.7	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	90.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	94.5	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	79.8	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5456545)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	83.7	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	93.3	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	88.0	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.8	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	93.5	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	90.5	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5456546)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	89.5	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	95.2	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	97.5	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.4	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	95.2	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	97.1	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454904)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	79.3	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	78.8	72.0	129

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454904) - continued								
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	85.0	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	90.9	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	94.7	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	90.1	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	81.2	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.2	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	85.7	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	71.1	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	92.4	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454906)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	94.2	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	74.2	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	74.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	93.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	94.7	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	108	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	109	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	87.6	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	81.7	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	87.2	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454908)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	87.3	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	88.4	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.6	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	89.1	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	91.9	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.2	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	92.3	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	94.4	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	92.2	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	79.3	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	101	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454911)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454911) - continued								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	95.9	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	77.9	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	76.5	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	96.0	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	94.2	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	98.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	112	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	105	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	98.0	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	88.8	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	96.0	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5456545)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	88.3	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	87.8	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	87.0	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	87.9	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	89.8	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.7	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	89.6	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	96.5	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	96.4	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	88.7	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	104	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5456546)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	83.1	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	85.0	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	89.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	89.6	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	90.2	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	92.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	91.9	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	94.7	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	86.5	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	75.3	65.0	144

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5456546) - continued								
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	103	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454904)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	92.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	97.8	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	93.9	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.7	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	103	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	90.9	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	83.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454906)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	96.2	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	118	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	96.5	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.8	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	78.4	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	82.2	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	92.1	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454908)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	97.8	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	126	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	115	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	88.3	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	94.9	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	99.3	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	85.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454911)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454911) - continued								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	94.1	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	140	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	110	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	100.0	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.6	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	95.5	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	102	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5456545)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	98.2	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	124	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	120	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	93.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	102	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	100	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	85.7	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5456546)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	89.8	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	95.4	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	82.8	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	86.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	97.3	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	99.4	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	92.3	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454904)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.1	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	112	64.0	140

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454904) - continued								
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	89.3	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	71.3	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454906)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.5	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	97.3	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	92.5	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	79.9	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454908)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	96.0	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	108	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	110	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	70.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454911)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	101	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	95.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	98.0	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	83.0	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5456545)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.1	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	97.8	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	100	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	83.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5456546)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.9	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	102	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	104	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	90.4	70.0	130
EP231P: PFAS Sums (QCLot: 5454904)								
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 PFAS (WA DER List)	---	0.01	µg/L	<0.01	---	---	---	---
EP231P: PFAS Sums (QCLot: 5454906)								
EP231X: Sum of PFAS	---	0.01	µg/L	<0.01	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231P: PFAS Sums (QCLot: 5454906) - continued								
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.01	µg/L	<0.01	---	---	---	---
EP231P: PFAS Sums (QCLot: 5454908)								
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 PFAS (WA DER List)	---	0.01	µg/L	<0.01	---	---	---	---
EP231P: PFAS Sums (QCLot: 5454911)								
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 PFAS (WA DER List)	---	0.01	µg/L	<0.01	---	---	---	---
EP231P: PFAS Sums (QCLot: 5456545)								
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 PFAS (WA DER List)	---	0.01	µg/L	<0.01	---	---	---	---
EP231P: PFAS Sums (QCLot: 5456546)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5460930)							
EM2320952-065	0937_SD209_231117	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	# 70.1	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	# Not Determined	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	# Not Determined	67.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5460930) - continued							
EM2320952-065	0937_SD209_231117	EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	# Not Determined	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	# Not Determined	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5460937)							
EM2320952-101	0937_QC112_231116	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	92.9	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	114	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	94.5	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	121	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	# Not Determined	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5460930)							
EM2320952-065	0937_SD209_231117	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	89.6	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	# Not Determined	69.0	132
		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	97.6	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	# Not Determined	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	109	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	96.1	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	102	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	70.9	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	# 47.1	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	81.6	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5460937)							
EM2320952-101	0937_QC112_231116	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	95.3	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	123	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	95.9	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	98.7	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	108	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	112	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	100	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	111	64.0	136

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: 5460937) - continued							
EM2320952-101	0937_QC112_231116	EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	98.0	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.2	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	94.2	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5460930)							
EM2320952-065	0937_SD209_231117	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	# Not Determined	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	111	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	104	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	99.9	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	116	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	99.0	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	98.5	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5460937)							
EM2320952-101	0937_QC112_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	106	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	108	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	98.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	83.7	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	103	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	119	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	105	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5460930)							
EM2320952-065	0937_SD209_231117	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	94.2	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	89.7	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	104	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	# 69.3	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5460937)							
EM2320952-101	0937_QC112_231116	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	107	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	108	64.0	140

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5460937) - continued							
EM2320952-101	0937_QC112_231116	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	125	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	85.2	70.0	130

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454904)							
EM2320952-004	0937_MW315_231116	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	# Not Determined	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	# Not Determined	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	# Not Determined	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	# Not Determined	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	# Not Determined	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	# Not Determined	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454906)							
EM2320952-017	0937_MW626_231115	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	# Not Determined	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	# Not Determined	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	# Not Determined	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	92.0	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	# Not Determined	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	77.3	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5454908)							
EM2320952-035	0937_MW724_231116	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	# Not Determined	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	# Not Determined	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	# Not Determined	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	112	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	80.6	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	95.6	53.0	142

Sub-Matrix: **WATER**

				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: 5454911)							
EM2320952-046	0937_MW739_231115	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	# Not Determined	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	# Not Determined	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	# Not Determined	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	96.2	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	# Not Determined	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	83.3	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5456545)							
EM2320952-054	0937_SW231_231120	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	86.8	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	# Not Determined	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	# Not Determined	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	104	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	# Not Determined	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	93.8	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5456546)							
EM2320952-061	0937_SW256_231123	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	# Not Determined	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	# Not Determined	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	# Not Determined	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	115	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	# Not Determined	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	87.5	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454904)							
EM2320952-004	0937_MW315_231116	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	# Not Determined	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	# Not Determined	72.0	129

Sub-Matrix: **WATER**

				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: 5454904) - continued							
EM2320952-004	0937_MW315_231116	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	# Not Determined	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	# Not Determined	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	108	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	92.4	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	93.7	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	92.1	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	# 62.9	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	97.6	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454906)							
EM2320952-017	0937_MW626_231115	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	77.1	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	# Not Determined	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	90.7	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	103	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	107	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	95.1	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	85.9	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	80.8	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	78.5	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454908)							
EM2320952-035	0937_MW724_231116	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	# 52.6	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	74.0	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	86.8	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	83.9	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	89.0	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	91.6	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	91.9	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	89.6	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	76.1	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	86.7	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5454911)							

Sub-Matrix: **WATER**

				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: 5454911) - continued							
EM2320952-046	0937_MW739_231115	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	# 53.9	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	# 67.8	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	101	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	90.8	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	83.9	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	108	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	93.3	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	88.3	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	75.2	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	121	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5456545)							
EM2320952-054	0937_SW231_231120	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	# 59.5	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	74.6	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	79.2	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	85.9	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	91.5	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	78.7	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	83.7	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	87.1	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	75.1	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	88.2	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5456546)							
EM2320952-061	0937_SW256_231123	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	# 50.2	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	74.3	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	# Not Determined	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	78.1	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	94.5	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	84.2	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	88.9	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	74.2	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	72.5	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	# 61.6	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	78.2	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454904)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454904) - continued							
EM2320952-004	0937_MW315_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	94.7	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	91.8	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	86.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	95.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	98.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	86.8	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	91.3	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454906)							
EM2320952-017	0937_MW626_231115	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	86.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	102	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	77.1	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	80.8	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	80.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	72.4	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	85.9	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454908)							
EM2320952-035	0937_MW724_231116	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	93.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	90.4	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	71.8	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	85.3	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	85.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	88.8	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	80.1	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454911)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5454911) - continued							
EM2320952-046	0937_MW739_231115	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	77.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	119	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	76.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	# Not Determined	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	85.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	67.3	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	70.1	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5456545)							
EM2320952-054	0937_SW231_231120	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	90.0	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	82.9	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	71.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	87.6	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	93.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	86.6	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	80.7	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5456546)							
EM2320952-061	0937_SW256_231123	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	89.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	71.1	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	77.5	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	81.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	85.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	# 41.4	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	65.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454904)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454904) - continued							
EM2320952-004	0937_MW315_231116	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	91.7	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	118	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	97.8	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# Not Determined	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454906)							
EM2320952-017	0937_MW626_231115	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	94.5	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	109	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	90.3	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	76.3	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454908)							
EM2320952-035	0937_MW724_231116	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	97.4	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	99.0	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	92.4	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	86.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5454911)							
EM2320952-046	0937_MW739_231115	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	94.3	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	91.7	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	92.6	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	92.0	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5456545)							
EM2320952-054	0937_SW231_231120	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	95.3	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	87.1	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	99.7	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	81.0	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5456546)							
EM2320952-061	0937_SW256_231123	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	82.5	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	109	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	82.5	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 58.3	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320952**	Page	: 1 of 21
Amendment	: **1**		
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: Base	Issue Date	: 14-Dec-2023
Sampler	: [redacted]	No. of samples received	: 136
Order number	: 304300114	No. of samples analysed	: 122

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--065	0937_SD209_231117	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	70.1 %	72.0-128%	**Recovery less than lower data quality objective**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--065	0937_SD209_231117	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--065	0937_SD209_231117	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--065	0937_SD209_231117	**Perfluoroheptane sulfonic acid (PFHpS)**	375-92-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--065	0937_SD209_231117	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--101	0937_QC112_231116	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--065	0937_SD209_231117	**Perfluorodecane sulfonic acid (PFDS)**	335-77-3	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--065	0937_SD209_231117	**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	EM2320952--065	0937_SD209_231117	**Perfluorooctanoic acid (PFOA)**	335-67-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--065	0937_SD209_231117	**Perfluorotridecanoic acid (PFTrDA)**	72629-94-8	47.1 %	66.0-139%	**Recovery less than lower data quality objective**
EP231C: Perfluoroalkyl Sulfonamides	EM2320952--065	0937_SD209_231117	**Perfluorooctane sulfonamide (FOSA)**	754-91-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2320952--065	0937_SD209_231117	**10:2 Fluorotelomer sulfonic acid (10:2 FTS)**	120226-60-0	69.3 %	70.0-130%	**Recovery less than lower data quality objective**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EP231P: PFAS Sums	EM2320952--048	0937_MW741_231115	**Sum of PFAS**	----	28.6 %	0% - 20%	**RPD exceeds LOR based limits**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs - Continued							
EP231P: PFAS Sums	EM2320952--048	0937_MW741_231115	**Sum of PFHxS and PFOS**	355-46-4/1763-23-1	28.6 %	0% - 20%	**RPD exceeds LOR based limits**
EP231P: PFAS Sums	EM2320952--048	0937_MW741_231115	**Sum of PFAS (WA DER List)**	----	28.6 %	0% - 20%	**RPD exceeds LOR based limits**
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--004	0937_MW315_231116	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--017	0937_MW626_231115	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--035	0937_MW724_231116	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--046	0937_MW739_231115	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--061	0937_SW256_231123	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--004	0937_MW315_231116	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--017	0937_MW626_231115	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--035	0937_MW724_231116	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--046	0937_MW739_231115	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--054	0937_SW231_231120	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--061	0937_SW256_231123	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--004	0937_MW315_231116	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries - Continued							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--017	0937_MW626_231115	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--035	0937_MW724_231116	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--046	0937_MW739_231115	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--054	0937_SW231_231120	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--061	0937_SW256_231123	**Perfluorohexane sulfonic acid (PFHxS)**	355-46-4	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--004	0937_MW315_231116	**Perfluoroheptane sulfonic acid (PFHpS)**	375-92-8	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--004	0937_MW315_231116	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--017	0937_MW626_231115	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--046	0937_MW739_231115	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--054	0937_SW231_231120	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320952--061	0937_SW256_231123	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--035	0937_MW724_231116	**Perfluorobutanoic acid (PFBA)**	375-22-4	52.6 %	73.0-129%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--046	0937_MW739_231115	**Perfluorobutanoic acid (PFBA)**	375-22-4	53.9 %	73.0-129%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--054	0937_SW231_231120	**Perfluorobutanoic acid (PFBA)**	375-22-4	59.5 %	73.0-129%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--061	0937_SW256_231123	**Perfluorobutanoic acid (PFBA)**	375-22-4	50.2 %	73.0-129%	**Recovery less than lower data quality objective**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries - Continued							
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--004	0937_MW315_231116	**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	EM2320952--017	0937_MW626_231115	**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	EM2320952--046	0937_MW739_231115	**Perfluoropentanoic acid (PFPeA)**	2706-90-3	67.8 %	72.0-129%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--004	0937_MW315_231116	**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	EM2320952--017	0937_MW626_231115	**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	EM2320952--035	0937_MW724_231116	**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	EM2320952--046	0937_MW739_231115	**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	EM2320952--054	0937_SW231_231120	**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	EM2320952--061	0937_SW256_231123	**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	EM2320952--004	0937_MW315_231116	**Perfluoroheptanoic acid (PFHpA)**	375-85-9	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--017	0937_MW626_231115	**Perfluoroheptanoic acid (PFHpA)**	375-85-9	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--004	0937_MW315_231116	**Perfluorooctanoic acid (PFOA)**	335-67-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--004	0937_MW315_231116	**Perfluorotridecanoic acid (PFTrDA)**	72629-94-8	62.9 %	65.0-144%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2320952--061	0937_SW256_231123	**Perfluorotridecanoic acid (PFTrDA)**	72629-94-8	61.6 %	65.0-144%	**Recovery less than lower data quality objective**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries - Continued							
EP231C: Perfluoroalkyl Sulfonamides	EM2320952--061	0937_SW256_231123	**N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)**	2355-31-9	41.4 %	65.0-136%	**Recovery less than lower data quality objective**
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2320952--061	0937_SW256_231123	**10:2 Fluorotelomer sulfonic acid (10:2 FTS)**	120226-60-0	58.3 %	70.0-130%	**Recovery less than lower data quality objective**

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*		*Sample Date*	*Extraction / Preparation*			*Analysis*		
			Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)								
HDPE Soil Jar (EA055)								
0937_SD230_231115,	0937_SD246_231115,	**15-Nov-2023**	---	---	---	**29-Nov-2023**	29-Nov-2023	✓
0937_SD247_231115,	0937_SD249_231115,							
0937_SD251_231115,	0937_QC106_231115							
HDPE Soil Jar (EA055)								
0937_SD201_231116,	0937_SD223_231116,	**16-Nov-2023**	---	---	---	**29-Nov-2023**	30-Nov-2023	✓
0937_SD227_231116,	0937_SD233_231116,							
0937_SD242_231116,	0937_SD258_231116,							
0937_SD259_231116,	0937_SD260_231116,							
0937_QC111_231116,	0937_QC112_231116,							
0937_QC113_231116,	0937_QC116_231116							
HDPE Soil Jar (EA055)								
0937_SD209_231117,	0937_SD217_231117,	**17-Nov-2023**	---	---	---	**29-Nov-2023**	01-Dec-2023	✓
0937_SD226_231117,	0937_SD239_231117							
HDPE Soil Jar (EA055)								
0937_SD231_231120,	0937_SD256_231120,	**20-Nov-2023**	---	---	---	**29-Nov-2023**	04-Dec-2023	✓
0937_SD257_231120								

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X) 0937_SD230_231115, 0937_SD246_231115, 0937_SD247_231115, 0937_SD249_231115, 0937_SD251_231115, 0937_QC106_231115	**15-Nov-2023**	**30-Nov-2023**	13-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD223_231116	**16-Nov-2023**	**01-Dec-2023**	14-May-2024	✓	**01-Dec-2023**	10-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD201_231116, 0937_SD227_231116, 0937_SD233_231116, 0937_SD242_231116, 0937_SD258_231116, 0937_SD259_231116, 0937_SD260_231116, 0937_QC111_231116, 0937_QC112_231116, 0937_QC113_231116, 0937_QC116_231116	**16-Nov-2023**	**30-Nov-2023**	14-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD209_231117, 0937_SD217_231117, 0937_SD226_231117, 0937_SD239_231117	**17-Nov-2023**	**30-Nov-2023**	15-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD231_231120, 0937_SD256_231120, 0937_SD257_231120	**20-Nov-2023**	**30-Nov-2023**	18-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) 0937_SD230_231115, 0937_SD246_231115, 0937_SD247_231115, 0937_SD249_231115, 0937_SD251_231115, 0937_QC106_231115	**15-Nov-2023**	**30-Nov-2023**	13-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD223_231116	**16-Nov-2023**	**01-Dec-2023**	14-May-2024	✓	**01-Dec-2023**	10-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD201_231116, 0937_SD227_231116, 0937_SD233_231116, 0937_SD242_231116, 0937_SD258_231116, 0937_SD259_231116, 0937_SD260_231116, 0937_QC111_231116, 0937_QC112_231116, 0937_QC113_231116, 0937_QC116_231116	**16-Nov-2023**	**30-Nov-2023**	14-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD209_231117, 0937_SD217_231117, 0937_SD226_231117, 0937_SD239_231117	**17-Nov-2023**	**30-Nov-2023**	15-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD231_231120, 0937_SD256_231120, 0937_SD257_231120	**20-Nov-2023**	**30-Nov-2023**	18-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) 0937_SD230_231115, 0937_SD246_231115, 0937_SD247_231115, 0937_SD249_231115, 0937_SD251_231115, 0937_QC106_231115	**15-Nov-2023**	**30-Nov-2023**	13-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD223_231116	**16-Nov-2023**	**01-Dec-2023**	14-May-2024	✓	**01-Dec-2023**	10-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD201_231116, 0937_SD227_231116, 0937_SD233_231116, 0937_SD242_231116, 0937_SD258_231116, 0937_SD259_231116, 0937_SD260_231116, 0937_QC111_231116, 0937_QC112_231116, 0937_QC113_231116, 0937_QC116_231116	**16-Nov-2023**	**30-Nov-2023**	14-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD209_231117, 0937_SD217_231117, 0937_SD226_231117, 0937_SD239_231117	**17-Nov-2023**	**30-Nov-2023**	15-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD231_231120, 0937_SD256_231120, 0937_SD257_231120	**20-Nov-2023**	**30-Nov-2023**	18-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) 0937_SD230_231115, 0937_SD246_231115, 0937_SD247_231115, 0937_SD249_231115, 0937_SD251_231115, 0937_QC106_231115	**15-Nov-2023**	**30-Nov-2023**	13-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD223_231116	**16-Nov-2023**	**01-Dec-2023**	14-May-2024	✓	**01-Dec-2023**	10-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD201_231116, 0937_SD227_231116, 0937_SD233_231116, 0937_SD242_231116, 0937_SD258_231116, 0937_SD259_231116, 0937_SD260_231116, 0937_QC111_231116, 0937_QC112_231116, 0937_QC113_231116, 0937_QC116_231116	**16-Nov-2023**	**30-Nov-2023**	14-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD209_231117, 0937_SD217_231117, 0937_SD226_231117, 0937_SD239_231117	**17-Nov-2023**	**30-Nov-2023**	15-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD231_231120, 0937_SD256_231120, 0937_SD257_231120	**20-Nov-2023**	**30-Nov-2023**	18-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) 0937_SD230_231115, 0937_SD246_231115, 0937_SD247_231115, 0937_SD249_231115, 0937_SD251_231115, 0937_QC106_231115	**15-Nov-2023**	**30-Nov-2023**	13-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD223_231116	**16-Nov-2023**	**01-Dec-2023**	14-May-2024	✓	**01-Dec-2023**	10-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD201_231116, 0937_SD227_231116, 0937_SD233_231116, 0937_SD242_231116, 0937_SD258_231116, 0937_SD259_231116, 0937_SD260_231116, 0937_QC111_231116, 0937_QC112_231116, 0937_QC113_231116, 0937_QC116_231116	**16-Nov-2023**	**30-Nov-2023**	14-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD209_231117, 0937_SD217_231117, 0937_SD226_231117, 0937_SD239_231117	**17-Nov-2023**	**30-Nov-2023**	15-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD231_231120, 0937_SD256_231120, 0937_SD257_231120	**20-Nov-2023**	**30-Nov-2023**	18-May-2024	✓	**04-Dec-2023**	09-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW201_231115, 0937_MW202_231115, 0937_MW323_231115, 0937_MW324_231115, 0937_MW607_231115, 0937_MW609_231115, 0937_MW617_231115, 0937_MW622_231115, 0937_MW623_231115, 0937_MW627_231115, 0937_MW725_231115, 0937_MW735_231115, 0937_MW740_231115, 0937_SW230_231115, 0937_SW246_231115, 0937_SW251_231115, 0937_SW252_231115, 0937_QC100_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**28-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW626_231115, 0937_MW701_231115, 0937_MW702_231115, 0937_MW704_231115, 0937_MW705_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**29-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW707_231115, 0937_MW708_231115, 0937_MW709_231115, 0937_MW712_231115, 0937_MW714_231115, 0937_MW728_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW739_231115, 0937_MW741_231115, 0937_QC101_231115, 0937_QC102_231115, 0937_QC103_231115, 0937_QC104_231115, 0937_QC105_231115, 0937_SW351_231115, 0937_QC107_231115, 0937_QC108_231115, 0937_QC109_231115, 0937_QC300_231115, 0937_QC400_231115 - field blank	**15-Nov-2023**	**29-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW603_231116_02	**16-Nov-2023**	**12-Dec-2023**	14-May-2024	✓	**14-Dec-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW306_231116, 0937_MW315_231116, 0937_MW325_231116, 0937_MW326_231116, 0937_MW603_231116, 0937_MW612_231116, 0937_MW616_231116, 0937_MW628_231116, 0937_MW636_231116, 0937_MW724_231116, 0937_MW734_231116, 0937_MW737_231116, 0937_SW203_231116, 0937_SW227_231116, 0937_SW233_231116, 0937_SW258_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW726_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW223_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**29-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X)							

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids - Continued							
0937_QC110_231116, 0937_QC114_231116, 0937_QC115_231116, 0937_QC302_231116, 0937_QC402_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW738_231117, 0937_SW209_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW719_231117, 0937_MW720_231117, 0937_MW729_231117, 0937_MW730_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW239_231117, 0937_QC304_231117, 0937_QC404_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**29-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC117_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW257_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW711_231120, 0937_MW715_231120, 0937_MW716_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**30-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW231_231120, 0937_SW238_231120, 0937_QC306_231120, 0937_QC406_231120	**20-Nov-2023**	**29-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC308_231121, 0937_QC408_231121	**21-Nov-2023**	**29-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC310_231122, 0937_QC410_231122	**22-Nov-2023**	**29-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW733_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW256_231123, 0937_QC312_231123, 0937_QC412_231123	**23-Nov-2023**	**29-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC500_231124, 0937_QC501_231124, 0937_QC502_231124, 0937_QC503_231124, 0937_QC504_231124	**24-Nov-2023**	**29-Nov-2023**	22-May-2024	✓	**29-Nov-2023**	22-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_MW201_231115, 0937_MW202_231115, 0937_MW323_231115, 0937_MW324_231115, 0937_MW607_231115, 0937_MW609_231115, 0937_MW617_231115, 0937_MW622_231115, 0937_MW623_231115, 0937_MW627_231115, 0937_MW725_231115, 0937_MW735_231115, 0937_MW740_231115, 0937_SW230_231115, 0937_SW246_231115, 0937_SW251_231115, 0937_SW252_231115, 0937_QC100_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**28-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW626_231115, 0937_MW701_231115, 0937_MW702_231115, 0937_MW704_231115, 0937_MW705_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**29-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW707_231115, 0937_MW708_231115, 0937_MW709_231115, 0937_MW712_231115, 0937_MW714_231115, 0937_MW728_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW739_231115, 0937_MW741_231115, 0937_QC101_231115, 0937_QC102_231115, 0937_QC103_231115, 0937_QC104_231115, 0937_QC105_231115, 0937_SW351_231115, 0937_QC107_231115, 0937_QC108_231115, 0937_QC109_231115, 0937_QC300_231115, 0937_QC400_231115 - field blank	**15-Nov-2023**	**29-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW603_231116_02	**16-Nov-2023**	**12-Dec-2023**	14-May-2024	✓	**14-Dec-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW306_231116, 0937_MW315_231116, 0937_MW325_231116, 0937_MW326_231116, 0937_MW603_231116, 0937_MW612_231116, 0937_MW616_231116, 0937_MW628_231116, 0937_MW636_231116, 0937_MW724_231116, 0937_MW734_231116, 0937_MW737_231116, 0937_SW203_231116, 0937_SW227_231116, 0937_SW233_231116, 0937_SW258_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW726_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW223_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**29-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X)							

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids - Continued							
0937_QC110_231116, 0937_QC114_231116, 0937_QC115_231116, 0937_QC302_231116, 0937_QC402_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW738_231117, 0937_SW209_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW719_231117, 0937_MW720_231117, 0937_MW729_231117, 0937_MW730_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW239_231117, 0937_QC304_231117, 0937_QC404_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**29-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC117_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW257_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW711_231120, 0937_MW715_231120, 0937_MW716_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**30-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW231_231120, 0937_SW238_231120, 0937_QC306_231120, 0937_QC406_231120	**20-Nov-2023**	**29-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC308_231121, 0937_QC408_231121	**21-Nov-2023**	**29-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC310_231122, 0937_QC410_231122	**22-Nov-2023**	**29-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW733_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW256_231123, 0937_QC312_231123, 0937_QC412_231123	**23-Nov-2023**	**29-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC500_231124, 0937_QC501_231124, 0937_QC502_231124, 0937_QC503_231124, 0937_QC504_231124	**24-Nov-2023**	**29-Nov-2023**	22-May-2024	✓	**29-Nov-2023**	22-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_MW201_231115, 0937_MW202_231115, 0937_MW323_231115, 0937_MW324_231115, 0937_MW607_231115, 0937_MW609_231115, 0937_MW617_231115, 0937_MW622_231115, 0937_MW623_231115, 0937_MW627_231115, 0937_MW725_231115, 0937_MW735_231115, 0937_MW740_231115, 0937_SW230_231115, 0937_SW246_231115, 0937_SW251_231115, 0937_SW252_231115, 0937_QC100_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**28-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW626_231115, 0937_MW701_231115, 0937_MW702_231115, 0937_MW704_231115, 0937_MW705_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**29-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW707_231115, 0937_MW708_231115, 0937_MW709_231115, 0937_MW712_231115, 0937_MW714_231115, 0937_MW728_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW739_231115, 0937_MW741_231115, 0937_QC101_231115, 0937_QC102_231115, 0937_QC103_231115, 0937_QC104_231115, 0937_QC105_231115, 0937_SW351_231115, 0937_QC107_231115, 0937_QC108_231115, 0937_QC109_231115, 0937_QC300_231115, 0937_QC400_231115 - field blank	**15-Nov-2023**	**29-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW603_231116_02	**16-Nov-2023**	**12-Dec-2023**	14-May-2024	✓	**14-Dec-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW306_231116, 0937_MW315_231116, 0937_MW325_231116, 0937_MW326_231116, 0937_MW603_231116, 0937_MW612_231116, 0937_MW616_231116, 0937_MW628_231116, 0937_MW636_231116, 0937_MW724_231116, 0937_MW734_231116, 0937_MW737_231116, 0937_SW203_231116, 0937_SW227_231116, 0937_SW233_231116, 0937_SW258_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW726_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW223_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**29-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X)							

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides - Continued							
0937_QC110_231116, 0937_QC114_231116, 0937_QC115_231116, 0937_QC302_231116, 0937_QC402_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW738_231117, 0937_SW209_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW719_231117, 0937_MW720_231117, 0937_MW729_231117, 0937_MW730_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW239_231117, 0937_QC304_231117, 0937_QC404_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**29-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC117_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW257_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW711_231120, 0937_MW715_231120, 0937_MW716_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**30-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW231_231120, 0937_SW238_231120, 0937_QC306_231120, 0937_QC406_231120	**20-Nov-2023**	**29-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC308_231121, 0937_QC408_231121	**21-Nov-2023**	**29-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC310_231122, 0937_QC410_231122	**22-Nov-2023**	**29-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW733_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW256_231123, 0937_QC312_231123, 0937_QC412_231123	**23-Nov-2023**	**29-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC500_231124, 0937_QC501_231124, 0937_QC502_231124, 0937_QC503_231124, 0937_QC504_231124	**24-Nov-2023**	**29-Nov-2023**	22-May-2024	✓	**29-Nov-2023**	22-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW201_231115, 0937_MW202_231115, 0937_MW323_231115, 0937_MW324_231115, 0937_MW607_231115, 0937_MW609_231115, 0937_MW617_231115, 0937_MW622_231115, 0937_MW623_231115, 0937_MW627_231115, 0937_MW725_231115, 0937_MW735_231115, 0937_MW740_231115, 0937_SW230_231115, 0937_SW246_231115, 0937_SW251_231115, 0937_SW252_231115, 0937_QC100_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**28-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW626_231115, 0937_MW701_231115, 0937_MW702_231115, 0937_MW704_231115, 0937_MW705_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**29-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW707_231115, 0937_MW708_231115, 0937_MW709_231115, 0937_MW712_231115, 0937_MW714_231115, 0937_MW728_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW739_231115, 0937_MW741_231115, 0937_QC101_231115, 0937_QC102_231115, 0937_QC103_231115, 0937_QC104_231115, 0937_QC105_231115, 0937_SW351_231115, 0937_QC107_231115, 0937_QC108_231115, 0937_QC109_231115, 0937_QC300_231115, 0937_QC400_231115 - field blank	**15-Nov-2023**	**29-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW603_231116_02	**16-Nov-2023**	**12-Dec-2023**	14-May-2024	✓	**14-Dec-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW306_231116, 0937_MW315_231116, 0937_MW325_231116, 0937_MW326_231116, 0937_MW603_231116, 0937_MW612_231116, 0937_MW616_231116, 0937_MW628_231116, 0937_MW636_231116, 0937_MW724_231116, 0937_MW734_231116, 0937_MW737_231116, 0937_SW203_231116, 0937_SW227_231116, 0937_SW233_231116, 0937_SW258_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW726_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW223_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**29-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X)							

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued							
0937_QC110_231116, 0937_QC114_231116, 0937_QC115_231116, 0937_QC302_231116, 0937_QC402_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW738_231117, 0937_SW209_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW719_231117, 0937_MW720_231117, 0937_MW729_231117, 0937_MW730_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW239_231117, 0937_QC304_231117, 0937_QC404_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**29-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC117_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW257_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW711_231120, 0937_MW715_231120, 0937_MW716_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**30-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW231_231120, 0937_SW238_231120, 0937_QC306_231120, 0937_QC406_231120	**20-Nov-2023**	**29-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC308_231121, 0937_QC408_231121	**21-Nov-2023**	**29-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC310_231122, 0937_QC410_231122	**22-Nov-2023**	**29-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW733_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW256_231123, 0937_QC312_231123, 0937_QC412_231123	**23-Nov-2023**	**29-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC500_231124, 0937_QC501_231124, 0937_QC502_231124, 0937_QC503_231124, 0937_QC504_231124	**24-Nov-2023**	**29-Nov-2023**	22-May-2024	✓	**29-Nov-2023**	22-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_MW201_231115, 0937_MW202_231115, 0937_MW323_231115, 0937_MW324_231115, 0937_MW607_231115, 0937_MW609_231115, 0937_MW617_231115, 0937_MW622_231115, 0937_MW623_231115, 0937_MW627_231115, 0937_MW725_231115, 0937_MW735_231115, 0937_MW740_231115, 0937_SW230_231115, 0937_SW246_231115, 0937_SW251_231115, 0937_SW252_231115, 0937_QC100_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**28-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW626_231115, 0937_MW701_231115, 0937_MW702_231115, 0937_MW704_231115, 0937_MW705_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**29-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW707_231115, 0937_MW708_231115, 0937_MW709_231115, 0937_MW712_231115, 0937_MW714_231115, 0937_MW728_231115	**15-Nov-2023**	**28-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW739_231115, 0937_MW741_231115, 0937_QC101_231115, 0937_QC102_231115, 0937_QC103_231115, 0937_QC104_231115, 0937_QC105_231115, 0937_SW351_231115, 0937_QC107_231115, 0937_QC108_231115, 0937_QC109_231115, 0937_QC300_231115, 0937_QC400_231115 - field blank	**15-Nov-2023**	**29-Nov-2023**	13-May-2024	✓	**30-Nov-2023**	13-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW603_231116_02	**16-Nov-2023**	**12-Dec-2023**	14-May-2024	✓	**14-Dec-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW306_231116, 0937_MW315_231116, 0937_MW325_231116, 0937_MW326_231116, 0937_MW603_231116, 0937_MW612_231116, 0937_MW616_231116, 0937_MW628_231116, 0937_MW636_231116, 0937_MW724_231116, 0937_MW734_231116, 0937_MW737_231116, 0937_SW203_231116, 0937_SW227_231116, 0937_SW233_231116, 0937_SW258_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW726_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW223_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**29-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X)							

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums - Continued							
0937_QC110_231116, 0937_QC114_231116, 0937_QC115_231116, 0937_QC302_231116, 0937_QC402_231116	**16-Nov-2023**	**29-Nov-2023**	14-May-2024	✓	**30-Nov-2023**	14-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW738_231117, 0937_SW209_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW719_231117, 0937_MW720_231117, 0937_MW729_231117, 0937_MW730_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW239_231117, 0937_QC304_231117, 0937_QC404_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**29-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC117_231117	**17-Nov-2023**	**29-Nov-2023**	15-May-2024	✓	**30-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW257_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW711_231120, 0937_MW715_231120, 0937_MW716_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**30-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW231_231120, 0937_SW238_231120, 0937_QC306_231120, 0937_QC406_231120	**20-Nov-2023**	**29-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC308_231121, 0937_QC408_231121	**21-Nov-2023**	**29-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC310_231122, 0937_QC410_231122	**22-Nov-2023**	**29-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW733_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW256_231123, 0937_QC312_231123, 0937_QC412_231123	**23-Nov-2023**	**29-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_QC500_231124, 0937_QC501_231124, 0937_QC502_231124, 0937_QC503_231124, 0937_QC504_231124	**24-Nov-2023**	**29-Nov-2023**	22-May-2024	✓	**29-Nov-2023**	22-May-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	3	25	12.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	5	39	12.82	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	39	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	39	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	39	5.13	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	11	97	11.34	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	97	6.19	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	97	6.19	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	97	6.19	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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	[redacted]
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 27/11 1325

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_MW201_231115		15/11/2023 09:26 AM	WATER	ALS: 2 Non ALS: 0	No			X		
002	0937_MW202_231115		15/11/2023 09:14 AM	WATER	ALS: 2 Non ALS: 0	No			X		
003	0937_MW306_231116		16/11/2023 08:06 AM	WATER	ALS: 2 Non ALS: 0	No			X		
004	0937_MW315_231116		16/11/2023 08:22 AM	WATER	ALS: 6 Non ALS: 0	No			X		
005	0937_MW323_231115		15/11/2023 09:43 AM	WATER	ALS: 2 Non ALS: 0	No			X		
006	0937_MW324_231115		15/11/2023 08:59 AM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
007	0937_MW325_231116		16/11/2023 02:44 PM	WATER	ALS: 2 Non ALS: 0	No			X		

Environmental Division
Melbourne
Work Order Reference
EM2320952

[redacted]

SH 27/11

CHAIN OF CUSTODY

ALS COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
008	0937_MW326_231116		16/11/2023 11:45 AM	WATER	ALS: 2 Non ALS: 0	No			X		
009	0937_MW603_231116		16/11/2023 12:57 PM	WATER	ALS: 2 Non ALS: 0	No			X		
010	0937_MW607_231115		15/11/2023 05:50 PM	WATER	ALS: 2 Non ALS: 0	No			X		
011	0937_MW609_231115		15/11/2023 06:05 PM	WATER	ALS: 2 Non ALS: 0	No			X		
012	0937_MW612_231116		16/11/2023 12:14 PM	WATER	ALS: 2 Non ALS: 0	No			X		
013	0937_MW616_231116		16/11/2023 06:30 PM	WATER	ALS: 2 Non ALS: 0	No			X		
014	0937_MW617_231115		15/11/2023 09:41 AM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/11 13:45

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
015	0937_MW622_231115		15/11/2023 08:42 AM	WATER	ALS: 2 Non ALS: 0	No			X		
016	0937_MW623_231115		15/11/2023 08:29 AM	WATER	ALS: 2 Non ALS: 0	No			X		
017	0937_MW626_231115		15/11/2023 08:13 AM	WATER	ALS: 6 Non ALS: 0	No			X		
018	0937_MW627_231115		15/11/2023 08:34 AM	WATER	ALS: 2 Non ALS: 0	No			X		
019	0937_MW628_231116		16/11/2023 05:27 PM	WATER	ALS: 2 Non ALS: 0	No			X		
020	0937_MW636_231116		16/11/2023 06:04 PM	WATER	ALS: 2 Non ALS: 0	No			X		
021	0937_MW701_231115		15/11/2023 12:02 PM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

(ALS) COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted]

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
022	0937_MW702_231115		15/11/2023 04:11 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
023	0937_MW704_231115		15/11/2023 09:14 AM	WATER	ALS: 2 Non ALS: 0	No			X		
024	0937_MW705_231115		15/11/2023 09:03 AM	WATER	ALS: 2 Non ALS: 0	No			X		
025	0937_MW707_231115		15/11/2023 01:50 PM	WATER	ALS: 2 Non ALS: 0	No			X		
026	0937_MW708_231115		15/11/2023 10:37 AM	WATER	ALS: 2 Non ALS: 0	No			X		
027	0937_MW709_231115		15/11/2023 10:00 AM	WATER	ALS: 2 Non ALS: 0	No			X		
028	0937_MW711_231120		20/11/2023 02:44 PM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/11 13-20

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
029	0937_MW712_231115		15/11/2023 01:47 PM	WATER	ALS: 2 Non ALS: 0	No			X		
030	0937_MW714_231115		15/11/2023 10:50 AM	WATER	ALS: 2 Non ALS: 0	No			X		
031	0937_MW715_231120		20/11/2023 03:19 PM	WATER	ALS: 2 Non ALS: 0	No			X		
032	0937_MW716_231120		20/11/2023 03:04 PM	WATER	ALS: 2 Non ALS: 0	No			X		
033	0937_MW719_231117		17/11/2023 08:26 AM	WATER	ALS: 2 Non ALS: 0	No			X		
034	0937_MW720_231117		17/11/2023 08:48 AM	WATER	ALS: 2 Non ALS: 0	No			X		
035	0937_MW724_231116		16/11/2023 08:01 AM	WATER	ALS: 6 Non ALS: 0	No			X	Interbal lab qc	

CHAIN OF CUSTODY

(ALS) COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
036	0937_MW725_231115		15/11/2023 06:03 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
037	0937_MW726_231116		16/11/2023 08:41 AM	WATER	ALS: 2 Non ALS: 0	No			X		
038	0937_MW728_231115		15/11/2023 05:44 PM	WATER	ALS: 2 Non ALS: 0	No			X		
039	0937_MW729_231117		17/11/2023 08:49 AM	WATER	ALS: 2 Non ALS: 0	No			X		
040	0937_MW730_231117		17/11/2023 08:50 AM	WATER	ALS: 2 Non ALS: 0	No			X		
041	0937_MW733_231123		23/11/2023 01:37 PM	WATER	ALS: 2 Non ALS: 0	No			X		
042	0937_MW734_231116		16/11/2023 08:23 AM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY: [redacted]
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 1320

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION SM 25/11	DATE / TIME 15	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
043	0937_MW735_231115		20/11/2023 06:04 PM	WATER	ALS: 2 Non ALS: 0	No			X		
044	0937_MW737_231116		16/11/2023 10:37 AM	WATER	ALS: 2 Non ALS: 0	No			X		
045	0937_MW738_231117		17/11/2023 08:49 AM	WATER	ALS: 2 Non ALS: 0	No			X		
046	0937_MW739_231115		15/11/2023 03:50 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
047	0937_MW740_231115		15/11/2023 10:55 AM	WATER	ALS: 2 Non ALS: 0	No			X		
048	0937_MW741_231115		15/11/2023 02:03 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
049	0937_SW203_231116		16/11/2023 10:58 AM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	REC [redacted]
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
050	0937_SW209_231117		17/11/2023 10:15 AM	WATER	ALS: 2 Non ALS: 0	No			X		
051	0937_SW223_231116		16/11/2023 01:51 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
052	0937_SW227_231116		16/11/2023 06:37 PM	WATER	ALS: 2 Non ALS: 0	No			X		
053	0937_SW230_231115		15/11/2023 03:18 PM	WATER	ALS: 2 Non ALS: 0	No			X		
054	0937_SW231_231120		20/11/2023 04:15 PM	WATER	ALS: 6 Non ALS: 0	No			X		Internal lab qc
055	0937_SW233_231116		16/11/2023 10:03 AM	WATER	ALS: 2 Non ALS: 0	No			X		
056	0937_SW238_231120		20/11/2023 03:06 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY: [redacted]
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 13:25

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
057	0937_SW239_231117		17/11/2023 11:40 AM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
058	0937_SW246_231115		15/11/2023 02:33 PM	WATER	ALS: 2 Non ALS: 0	No			X		
059	0937_SW251_231115		15/11/2023 04:24 PM	WATER	ALS: 2 Non ALS: 0	No			X		
060	0937_SW252_231115		15/11/2023 02:35 PM	WATER	ALS: 2 Non ALS: 0	No			X		
061	0937_SW256_231123		23/11/2023 03:48 PM	WATER	ALS: 6 Non ALS: 0	No			X	Internal lab qc	
062	0937_SW257_231120		20/11/2023 02:03 PM	WATER	ALS: 2 Non ALS: 0	No			X		
063	0937_SW258_231116		16/11/2023 05:14 PM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

(ALS) COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS: 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
064	0937_SD201_231116		16/11/2023 11:14 AM	SOIL	ALS: 3 Non ALS: 0	No		X		Internal lab qc	
065	0937_SD209_231117		17/11/2023 10:18 AM	SOIL	ALS: 1 Non ALS: 0	No		X			
066	0937_SD217_231117		17/11/2023 10:33 AM	SOIL	ALS: 1 Non ALS: 0	No		X			
067	0937_SD223_231116		16/11/2023 02:43 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
068	0937_SD226_231117		17/11/2023 10:08 AM	SOIL	ALS: 3 Non ALS: 0	No		X		Internal lab qc	
069	0937_SD227_231116		16/11/2023 06:38 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
070	0937_SD230_231115		15/11/2023 03:21 PM	SOIL	ALS: 1 Non ALS: 0	No		X			

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 1345

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
071	0937_SD231_231120		20/11/2023 04:16 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
072	0937_SD233_231116		16/11/2023 10:08 AM	SOIL	ALS: 1 Non ALS: 0	No		X			
073	0937_SD239_231117		17/11/2023 10:53 AM	SOIL	ALS: 3 Non ALS: 0	No		X		Internal lab qc	
074	0937_SD242_231116		16/11/2023 03:31 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
075	0937_SD246_231115		15/11/2023 02:33 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
076	0937_SD247_231115		15/11/2023 11:59 AM	SOIL	ALS: 3 Non ALS: 0	No		X		Internal lab qc	
077	0937_SD249_231115	15	20/11/2023 06:05 PM	SOIL	ALS: 1 Non ALS: 0	No		X			

SU 28/11

CHAIN OF CUSTODY

ALS COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted]

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
		SW28/11.									
078	0937_SD251_231115		15/11/2023 04:28 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
079	0937_SD256_231120		20/11/2023 03:31 PM	SOIL	ALS: 3 Non ALS: 0	No		X			
080	0937_SD257_231120		20/11/2023 02:03 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
081	0937_SD258_231116		16/11/2023 05:16 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
082	0937_SD259_231116		16/11/2023 04:44 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
083	0937_SD260_231116	16	20/11/2023 05:39 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
084	0937_QC100_231115		15/11/2023 08:29 AM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

ALS COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY: [redacted]
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 1375

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
085	0937_QC101_231115		15/11/2023 08:43 AM	WATER	ALS: 2 Non ALS: 0	No			X		
086	0937_QC102_231115		15/11/2023 09:04 AM	WATER	ALS: 2 Non ALS: 0	No			X		
087	0937_QC103_231115		15/11/2023 10:57 AM	WATER	ALS: 2 Non ALS: 0	No			X		
088	0937_QC104_231115		15/11/2023 02:36 PM	WATER	ALS: 2 Non ALS: 0	No			X		
089	0937_QC105_231115		15/11/2023 03:19 PM	WATER	ALS: 2 Non ALS: 0	No			X		
090	0937_QC106_231115		15/11/2023 03:22 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
091	0937_SW351_231115		15/11/2023 03:55 PM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

ALS COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECE[redacted]
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
092	0937_QC107_231115		15/11/2023 04:27 PM	WATER	ALS: 2 Non ALS: 0	No			X		
093	0937_QC108_231115		15/11/2023 05:51 PM	WATER	ALS: 2 Non ALS: 0	No			X		
094	0937_QC109_231115		15/11/2023 06:06 PM	WATER	ALS: 2 Non ALS: 0	No			X		
095	0937_QC300_231115		15/11/2023 06:19 PM	WATER	ALS: 2 Non ALS: 0	No			X		
096	0937_QC400_231115	field blank	15/11/2023 06:20 PM	WATER	ALS: 2 Non ALS: 0	No			X		
097	0937_QC301_231115		15/11/2023 06:17 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
098	0937_QC401_231115		15/11/2023 06:17 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted] 24/11 03:25

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
099	0937_QC110_231116		16/11/2023 08:24 AM	WATER	ALS: 2 Non ALS: 0	No			X		
100	0937_QC111_231116		16/11/2023 03:32 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
101	0937_QC112_231116		16/11/2023 04:44 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
102	0937_QC113_231116		16/11/2023 05:15 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
103	0937_QC114_231116		16/11/2023 05:17 PM	WATER	ALS: 2 Non ALS: 0	No			X		
104	0937_QC303_231116		16/11/2023 06:07 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
105	0937_QC403_231116		16/11/2023 06:06 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS: 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
106	0937_QC115_231116		16/11/2023 06:38 PM	WATER	ALS: 2 Non ALS: 0	No			X		
107	0937_QC116_231116		16/11/2023 06:39 PM	SOIL	ALS: 1 Non ALS: 0	No		X			
108	0937_QC302_231116		16/11/2023 06:44 PM	WATER	ALS: 2 Non ALS: 0	No			X		
109	0937_QC402_231116		16/11/2023 06:45 PM	WATER	ALS: 2 Non ALS: 0	No			X		
110	0937_QC117_231117		17/11/2023 10:16 AM	WATER	ALS: 2 Non ALS: 0	No			X		
111	0937_QC405_231117		17/11/2023 01:27 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
112	0937_QC305_231117		17/11/2023 01:26 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11/23

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
113	0937_QC304_231117		17/11/2023 01:40 PM	WATER	ALS: 2 Non ALS: 0	No			X		
114	0937_QC404_231117		17/11/2023 01:41 PM	WATER	ALS: 2 Non ALS: 0	No			X		
115	0937_QC306_231120		20/11/2023 05:08 PM	WATER	ALS: 2 Non ALS: 0	No			X		
116	0937_QC406_231120		20/11/2023 05:09 PM	WATER	ALS: 2 Non ALS: 0	No			X		
117	0937_QC307_231120		20/11/2023 05:31 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
118	0937_QC407_231120		20/11/2023 05:30 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
119	0937_QC309_231121		21/11/2023 05:44 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	

CHAIN OF CUSTODY

ALS COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
120	0937_QC409_231121		21/11/2023 05:44 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
121	0937_QC308_231121		21/11/2023 05:53 PM	WATER	ALS: 2 Non ALS: 0	No			X		
122	0937_QC408_231121		21/11/2023 05:53 PM	WATER	ALS: 2 Non ALS: 0	No			X		
123	0937_QC310_231122		22/11/2023 04:29 PM	WATER	ALS: 2 Non ALS: 0	No			X		
124	0937_QC311_231122		22/11/2023 04:23 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
125	0937_QC411_231122		22/11/2023 04:23 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
126	0937_QC410_231122		22/11/2023 04:30 PM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

COC#: 60111 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/6 13:14

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
127	0937_QC312_231123		23/11/2023 04:59 PM	WATER	ALS: 2 Non ALS: 0	No			X		
128	0937_QC412_231123		23/11/2023 05:00 PM	WATER	ALS: 2 Non ALS: 0	No			X		
129	0937_QC313_231123		23/11/2023 04:58 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
130	0937_QC413_231123		23/11/2023 04:58 PM	WATER	ALS: 2 Non ALS: 0	No	-			Place on hold	
131	0937_QC500_231114		24/11/2023 08:55 AM	WATER	ALS: 2 Non ALS: 0	No			X		
132	0937_QC501_231114		24/11/2023 08:55 AM	WATER	ALS: 2 Non ALS: 0	No			X		
133	0937_QC502_231114		24/11/2023 08:56 AM	WATER	ALS: 2 Non ALS: 0	No			X		

CHAIN OF CUSTODY

COC#: 60111 *ALS Laboratory:* EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: Base

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED				
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	Analysis NOT REQUIRED	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
134	0937_QC503_231114		24/11/2023 08:57 AM	WATER	ALS: 2 Non ALS: 0	No			X		
135	0937_QC504_231114		24/11/2023 08:57 AM	WATER	ALS: 2 Non ALS: 0	No			X		

ALS Compass
SAMPLING *Intelligence*

ALS Use Only

Custody Document for Submissions via ALS Compass App

VIC_0937_PFASOMP_23

Project: 304300114 Client: STANTEC Project Manager:

Phone: ( )

ALS Compass COC Reference: 60111, 60360, # Samples: 199 Sampler:

60378, 60384, 60376, 60375, 60383, 60377, 60382, 60379, 60381, 60374 Phone: ( )

Turnaround Requirements: Standard ✓✓ Urgent

Special Instructions:	ALS Use Only			
	Custody seal intact?	YES	NO	N/A
	Free ice / frozen ice bricks upon receipt?	YES	NO	N/A
	Random sample temperature on receipt?		°C	

Custody:

Relinquished by:	Received by:	Relinquished by:	Received by:
[redacted]			[redacted]
Date / Time: 24/11/23	Date / Time:	Date / Time:	Date / Time: 24/11 1325

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320909**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60374	Issue Date	: 30-Nov-2023 16:30
Sampler	: [redacted]		
Site	: DELWP		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW014_231120	----	----	----	----
				Sampling date / time	20-Nov-2023 20:47	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320909-001	--------	--------	--------	--------
					Result	---	---	---	---
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 01	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	----	----	----	----
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		<0.01	----	----	----	----
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	----	----	----	----
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	----	----	----	----

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW014_231120	----	----	----	----
				Sampling date / time	20-Nov-2023 20:47	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320909-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		89.1	----	----	----	----
13C8-PFOA	---	0.02	%		101	----	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320909**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60374	Issue Date	: 30-Nov-2023
Sampler	: [redacted]		
Site	: DELWP		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

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: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453401)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	96.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	109	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	93.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	106	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.5	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453401)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	84.4	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	78.0	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.4	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	82.4	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	93.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.4	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	100	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	91.3	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.6	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.6	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453401)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	95.4	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	132	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	116	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.3	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	94.6	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453401)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453401) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.7	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	95.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	99.6	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	81.4	70.0	130
EP231P: PFAS Sums (QCLot: 5453401)								
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 PFAS (WA DER List)	---	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	: **EM2320909**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: DELWP	Issue Date	: 30-Nov-2023
Sampler	: [redacted]	No. of samples received	: 1
Order number	: 304300114	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **WATER**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
0937_MW014_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
0937_MW014_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
0937_MW014_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
0937_MW014_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**29-Nov-2023**	18-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
0937_MW014_231120	**20-Nov-2023**	**28-Nov-2023**	18 May 2024	✓	**29-Nov-2023**	18 May 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: **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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60374 *ALS Laboratory:* EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/11 1325

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: DELWP

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_MW014_231120		20/11/2023 08:47 PM	WATER	ALS: 2 Non ALS: 0	No	X		

Environmental Division
Melbourne
Work Order Reference
EM2320909

[redacted]

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320910**	Page	: 1 of 11
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60375	Issue Date	: 01-Dec-2023 11:06
Sampler	: [redacted]		
Site	: F&G		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 16		
No. of samples analysed	: 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
- 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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
[redacted]	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD011_231122	0937_SD014_231122	0937_SD015_231122	0937_SD016_231122	0937_SD082_231122
			Sampling date / time	22-Nov-2023 14:27	22-Nov-2023 11:16	22-Nov-2023 08:59	22-Nov-2023 11:18	22-Nov-2023 08:15
Compound	CAS Number	LOR	Unit	EM2320910-009	EM2320910-010	EM2320910-011	EM2320910-012	EM2320910-013
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	7.1	49.4	9.1	11.5	49.5
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0002	0.0004	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	<0.0002	0.0005	0.0005	0.0003
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0043	0.0032	0.0056	0.0006
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0008	0.0005	0.0022	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0150	0.0596	0.0066	0.0920	<0.0002
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	<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	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0004	0.0003	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0006	0.0023	0.0016	0.0015
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.0002	0.0002	0.0003	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0004	0.0002	0.0004	<0.0002
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
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	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<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	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD011_231122	0937_SD014_231122	0937_SD015_231122	0937_SD016_231122	0937_SD082_231122
				Sampling date / time	22-Nov-2023 14:27	22-Nov-2023 11:16	22-Nov-2023 08:59	22-Nov-2023 11:18	22-Nov-2023 08:15
Compound	CAS Number	LOR	Unit		EM2320910-009	EM2320910-010	EM2320910-011	EM2320910-012	EM2320910-013
					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	<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
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		<0.0005	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0212**	**0.0659**	**0.0141**	**0.104**	**0.0024**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0187**	**0.0639**	**0.0098**	**0.0976**	**0.0006**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0201**	**0.0651**	**0.0131**	**0.101**	**0.0021**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**117**	**97.0**	**127**	**136**	**107**
13C8-PFOA	---	0.0002	%		**99.0**	**106**	**106**	**105**	**105**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD088_231121	0937_SD089_231121	0937_SD276_231121	----	----
			Sampling date / time	21-Nov-2023 16:25	21-Nov-2023 13:05	21-Nov-2023 11:39	----	----
Compound	CAS Number	LOR	Unit	EM2320910-014	EM2320910-015	EM2320910-016	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**22.6**	**49.8**	**27.0**	----	----
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**	**0.0030**	**0.0010**	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	**0.0005**	**0.0004**	**0.0003**	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0166**	**0.0126**	**0.0245**	----	----
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	<0.0002	<0.0002	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	**0.0005**	<0.0002	----	----
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	<0.0002	<0.0002	**0.0004**	----	----
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								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD088_231121	0937_SD089_231121	0937_SD276_231121	----	----
				Sampling date / time	21-Nov-2023 16:25	21-Nov-2023 13:05	21-Nov-2023 11:39	----	----
Compound	CAS Number	LOR	Unit		EM2320910-014	EM2320910-015	EM2320910-016	--------	--------
					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		<0.0005	<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	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0179**	**0.0165**	**0.0262**	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0174**	**0.0156**	**0.0255**	----	----
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0174**	**0.0161**	**0.0259**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**112**	**91.2**	**106**	----	----
13C8-PFOA	---	0.0002	%		**104**	**97.1**	**107**	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW011_231122	0937_SW014_231122	0937_SW015_231122	0937_SW016_231122	0937_SW082_231122
				Sampling date / time	22-Nov-2023 14:28	22-Nov-2023 11:16	22-Nov-2023 08:59	22-Nov-2023 11:17	22-Nov-2023 08:15
Compound	CAS Number	LOR	Unit		EM2320910-001	EM2320910-002	EM2320910-003	EM2320910-004	EM2320910-005
					Result	Result	Result	Result	Result
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**	**0.02**	**0.02**	**0.03**	**0.02**
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		**0.07**	**0.04**	**0.03**	**0.04**	**0.02**
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	<0.02
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		<0.01	<0.01	<0.01	<0.01	<0.01
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: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW011_231122	0937_SW014_231122	0937_SW015_231122	0937_SW016_231122	0937_SW082_231122
				Sampling date / time	22-Nov-2023 14:28	22-Nov-2023 11:16	22-Nov-2023 08:59	22-Nov-2023 11:17	22-Nov-2023 08:15
Compound	CAS Number	LOR	Unit		EM2320910-001	EM2320910-002	EM2320910-003	EM2320910-004	EM2320910-005
					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	<0.05	<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		**0.10**	**0.06**	**0.05**	**0.07**	**0.04**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.10**	**0.06**	**0.05**	**0.07**	**0.04**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.10**	**0.06**	**0.05**	**0.07**	**0.04**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**95.4**	**103**	**95.8**	**103**	**91.3**
13C8-PFOA	---	0.02	%		**102**	**102**	**107**	**99.8**	**102**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW088_231121	0937_SW089_231121	0937_SW277_231121	----	----
				Sampling date / time	21-Nov-2023 16:24	21-Nov-2023 13:04	21-Nov-2023 11:40	----	----
Compound	CAS Number	LOR	Unit		EM2320910-006	EM2320910-007	EM2320910-008	--------	--------
					Result	Result	Result	----	----
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**	**0.04**	----	----
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		**0.43**	**0.14**	**0.27**	----	----
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		<0.02	<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		<0.01	<0.01	<0.01	----	----
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	----	----
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	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW088_231121	0937_SW089_231121	0937_SW277_231121	----	----
				Sampling date / time	21-Nov-2023 16:24	21-Nov-2023 13:04	21-Nov-2023 11:40	----	----
Compound	CAS Number	LOR	Unit		EM2320910-006	EM2320910-007	EM2320910-008	--------	--------
					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	----	----
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		<0.05	<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	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.01	µg/L		**0.46**	**0.16**	**0.31**	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.46**	**0.16**	**0.31**	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.46**	**0.16**	**0.31**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**91.2**	**95.1**	**98.1**	----	----
13C8-PFOA	---	0.02	%		**102**	**103**	**102**	----	----

Surrogate Control Limits

Sub-Matrix: SEDIMENT		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	68	136
13C8-PFOA	---	69	133

Sub-Matrix: SURFACE WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320910**	Page	: 1 of 8
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60375	Issue Date	: 01-Dec-2023
Sampler	: [redacted]		
Site	: F&G		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 16		
No. of samples analysed	: 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 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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
[redacted]	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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: 5454849)									
EM2320799-001	Anonymous	EA055: Moisture Content	----	0.1	%	14.0	14.6	3.8	0% - 20%
EM2320910-010	0937_SD014_231122	EA055: Moisture Content	----	0.1	%	49.4	49.9	1.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5455217)									
EM2320910-009	0937_SD011_231122	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0030	19.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0150	0.0149	0.0	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0033	0.0035	6.6	0% - 50%
		EP231X Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0212	0.0207	2.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217)									
EM2320910-009	0937_SD011_231122	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0009	16.6	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375 95 1	0 0002	mg/kg	0 0002	0 0002	0 0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217) - continued									
EM2320910-009	0937_SD011_231122	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0013	0.0014	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0004	0.0005	25.6	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217)									
EM2320910 009	0937 SD011 231122	EP231X: Perfluorooctane sulfonamide (FOSA)	754 91 6	0 0002	mg/kg	0 0002	0 0002	0 0	No Limit
		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
EM2320912-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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

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: 5455217) - continued									
EM2320912-013	Anonymous	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: 5455217)									
EM2320910-009	0937_SD011_231122	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320912-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5455217)									
EM2320910-009	0937_SD011_231122	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0212	0.0199	6.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0187	0.0179	4.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0201	0.0190	5.6	0% - 20%
EM2320912-013	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0270	0.0272	0.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0245	0.0242	1.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0265	0.0264	0.4	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	109	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	96.4	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	95.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	94.0	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	90.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.6	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	110	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	102	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	90.5	70.0	130
EP231P: PFAS Sums (QCLot: 5455217)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453401)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	96.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	109	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	93.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	106	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.5	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453401)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	84.4	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	78.0	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.4	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	82.4	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	93.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.4	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	100	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	91.3	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.6	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.6	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453401)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	95.4	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	132	68.0	141

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453401) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	116	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.3	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	94.6	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453401)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.7	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	95.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	99.6	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	81.4	70.0	130
EP231P: PFAS Sums (QCLot: 5453401)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	0937_SD014_231122	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	96.5	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	77.6	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)							
EM2320910-010	0937_SD014_231122	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135

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: 5455217) - continued							
EM2320910-010	0937_SD014_231122	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	100	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	76.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.8	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	108	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	99.9	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	99.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.4	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)							
EM2320910-010	0937_SD014_231122	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.9	67.0	137
		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	92.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	91.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	0937_SD014_231122	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.6	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	100	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320910**	Page	: 1 of 6
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: F&G	Issue Date	: 01-Dec-2023
Sampler	: [redacted]	No. of samples received	: 16
Order number	: 304300114	No. of samples analysed	: 16

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.**
- **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

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

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320910--010	0937_SD014_231122	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	---	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*		*Sample Date*	*Extraction / Preparation*			*Analysis*		
			Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)								
HDPE Soil Jar (EA055)								
0937_SD088_231121,	0937_SD089_231121,	**21-Nov-2023**	---	---	---	**28-Nov-2023**	05-Dec-2023	✓
0937_SD276_231121								
HDPE Soil Jar (EA055)								
0937_SD011_231122,	0937_SD014_231122,	**22-Nov-2023**	---	---	---	**28-Nov-2023**	06-Dec-2023	✓
0937_SD015_231122,	0937_SD016_231122,							
0937_SD082_231122								
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
0937_SD088_231121,	0937_SD089_231121,	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
0937_SD276_231121								
HDPE Soil Jar (EP231X)								
0937_SD011_231122,	0937_SD014_231122,	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
0937_SD015_231122,	0937_SD016_231122,							
0937_SD082_231122								

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) 0937_SD088_231121, 0937_SD089_231121, 0937_SD276_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD011_231122, 0937_SD014_231122, 0937_SD015_231122, 0937_SD016_231122, 0937_SD082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) 0937_SD088_231121, 0937_SD089_231121, 0937_SD276_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD011_231122, 0937_SD014_231122, 0937_SD015_231122, 0937_SD016_231122, 0937_SD082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) 0937_SD088_231121, 0937_SD089_231121, 0937_SD276_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD011_231122, 0937_SD014_231122, 0937_SD015_231122, 0937_SD016_231122, 0937_SD082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) 0937_SD088_231121, 0937_SD089_231121, 0937_SD276_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD011_231122, 0937_SD014_231122, 0937_SD015_231122, 0937_SD016_231122, 0937_SD082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_SW088_231121, 0937_SW089_231121, 0937_SW277_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW011_231122, 0937_SW014_231122, 0937_SW015_231122, 0937_SW016_231122, 0937_SW082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_SW088_231121, 0937_SW089_231121, 0937_SW277_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW011_231122, 0937_SW014_231122, 0937_SW015_231122, 0937_SW016_231122, 0937_SW082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_SW088_231121, 0937_SW089_231121, 0937_SW277_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW011_231122, 0937_SW014_231122, 0937_SW015_231122, 0937_SW016_231122, 0937_SW082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_SW088_231121, 0937_SW089_231121, 0937_SW277_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW011_231122, 0937_SW014_231122, 0937_SW015_231122, 0937_SW016_231122, 0937_SW082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_SW088_231121, 0937_SW089_231121, 0937_SW277_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW011_231122, 0937_SW014_231122, 0937_SW015_231122, 0937_SW016_231122, 0937_SW082_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**29-Nov-2023**	20-May-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	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60375 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11/23

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: F&G

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_SW011_231122		22/11/2023 02:28 PM	WATER	ALS: 2 Non ALS: 0	No		X		
002	0937_SW014_231122		22/11/2023 11:16 AM	WATER	ALS: 2 Non ALS: 0	No		X		
003	0937_SW015_231122		22/11/2023 08:59 AM	WATER	ALS: 2 Non ALS: 0	No		X		
004	0937_SW016_231122		22/11/2023 11:17 AM	WATER	ALS: 2 Non ALS: 0	No		X		
005	0937_SW082_231122		22/11/2023 08:15 AM	WATER	ALS: 2 Non ALS: 0	No		X		
006	0937_SW088_231121		21/11/2023 04:24 PM	WATER	ALS: 2 Non ALS: 0	No		X		
007	0937_SW089_231121		21/11/2023 01:04 PM	WATER	ALS: 2 Non ALS: 0	No		X		

Environmental Division Melbourne

Work Order Reference

EM2320910

[redacted]

CHAIN OF CUSTODY

COC#: 60375 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted] 24/11 1325

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: F&G

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
008	0937_SW277_231121		21/11/2023 11:40 AM	WATER	ALS: 2 Non ALS: 0	No		X		
009	0937_SD011_231122		22/11/2023 02:27 PM	SOIL	ALS: 1 Non ALS: 0	No	X			
010	0937_SD014_231122		22/11/2023 11:16 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
011	0937_SD015_231122		22/11/2023 08:59 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
012	0937_SD016_231122		22/11/2023 11:18 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
013	0937_SD082_231122		22/11/2023 08:15 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
014	0937_SD088_231121		21/11/2023 04:25 PM	SOIL	ALS: 1 Non ALS: 0	No	X			

CHAIN OF CUSTODY

COC#: **60375** *ALS Laboratory:* EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TiME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: F&G

ORDER NO: 304300114

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
015	0937_SD089_231121		21/11/2023 01:05 PM	SOIL	ALS: 1 Non ALS: 0	No	X			
016	0937_SD276_231121		21/11/2023 11:39 AM	SOIL	ALS: 1 Non ALS: 0	No	X			

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320911**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ---	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60376	Issue Date	: 30-Nov-2023 16:31
Sampler	: [redacted]		
Site	: P001		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_POT027_231123	----	----	----	----
				Sampling date / time	23-Nov-2023 11:47	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320911-001	--------	--------	--------	--------	
				Result	---	---	---	---	
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	<0.01	----	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	----	----	----	----	
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	<0.01	----	----	----	----	
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	----	----	----	----	
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	----	----	----	----	

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_POT027_231123	----	----	----	----
				Sampling date / time	23-Nov-2023 11:47	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320911-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		78.0	----	----	----	----
13C8-PFOA	---	0.02	%		100	----	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320911**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60376	Issue Date	: 30-Nov-2023
Sampler	: [redacted]		
Site	: P001		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

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: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453401)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	96.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	109	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	93.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	106	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.5	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453401)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	84.4	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	78.0	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.4	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	82.4	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	93.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.4	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	100	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	91.3	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.6	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.6	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453401)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	95.4	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	132	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	116	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.3	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	94.6	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453401)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453401) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.7	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	95.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	99.6	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	81.4	70.0	130
EP231P: PFAS Sums (QCLot: 5453401)								
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 PFAS (WA DER List)	---	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	: **EM2320911**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: P001	Issue Date	: 30-Nov-2023
Sampler	: [redacted]	No. of samples received	: 1
Order number	: 304300114	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **WATER**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_POT027_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_POT027_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_POT027_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_POT027_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**29-Nov-2023**	21-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_POT027_231123	**23-Nov-2023**	**28-Nov-2023**	21 May 2024	✓	**29-Nov-2023**	21 May 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: **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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60376 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted] 24/11 1345

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P001

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_POT027_231123		23/11/2023 11:47 AM	WATER	ALS: 2 Non ALS: 0	No	X		

Environmental Division
Melbourne
Work Order Reference
EM2320911

[redacted]

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320912**	Page	: 1 of 13
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ---	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60377	Issue Date	: 01-Dec-2023 13:14
Sampler	: [redacted]		
Site	: P003		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 17		
No. of samples analysed	: 17		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)			Sample ID	0937_MW319_231121	0937_POT042_231121	0937_POT051_231121	----	----
			Sampling date / time	21-Nov-2023 15:00	21-Nov-2023 08:32	21-Nov-2023 08:39	----	----
Compound	CAS Number	LOR	Unit	EM2320912-001	EM2320912-002	EM2320912-003	--------	--------
				Result	Result	Result	----	----
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**	**0.06**	**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	**0.03**	**0.38**	**0.37**	----	----
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	<0.02	<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	<0.01	<0.01	<0.01	----	----
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	----	----
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	----	----

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW319_231121	0937_POT042_231121	0937_POT051_231121	----	----
				Sampling date / time	21-Nov-2023 15:00	21-Nov-2023 08:32	21-Nov-2023 08:39	----	----
Compound	CAS Number	LOR	Unit		EM2320912-001	EM2320912-002	EM2320912-003	--------	--------
					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	----	----
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		<0.05	<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	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		**0.06**	**0.46**	**0.39**	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.06**	**0.44**	**0.39**	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		**0.06**	**0.46**	**0.39**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**88.0**	**99.1**	**89.8**	----	----
13C8-PFOA	----	0.02	%		**103**	**98.7**	**96.6**	----	----

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD001_231121	0937_SD033_231121	0937_SD034_231121	0937_SD035_231121	0937_SD041_231121
			Sampling date / time	21-Nov-2023 15:11	21-Nov-2023 09:08	21-Nov-2023 14:13	21-Nov-2023 15:11	21-Nov-2023 09:53
Compound	CAS Number	LOR	Unit	EM2320912-011	EM2320912-012	EM2320912-013	EM2320912-014	EM2320912-015
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	**10.2**	**31.3**	**38.8**	**49.5**	**46.6**
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	**0.0003**	<0.0002	<0.0002	**0.0003**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	**0.0003**	<0.0002	<0.0002	**0.0006**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	**0.0009**	**0.0036**	**0.0033**	**0.0038**	**0.0130**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	**0.0005**	**0.0005**	**0.0012**	**0.0007**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0131**	**0.0379**	**0.0212**	**0.101**	**0.0139**
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	<0.001	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	**0.0003**	<0.0002	<0.0002	**0.0004**
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	**0.0006**	**0.0006**	**0.0013**	**0.0008**	**0.0026**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	**0.0002**	**0.0003**	**0.0002**	**0.0006**
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	**0.0004**	**0.0004**	**0.0007**
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
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	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<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	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	**0.0003**	<0.0002

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD001_231121	0937_SD033_231121	0937_SD034_231121	0937_SD035_231121	0937_SD041_231121
				Sampling date / time	21-Nov-2023 15:11	21-Nov-2023 09:08	21-Nov-2023 14:13	21-Nov-2023 15:11	21-Nov-2023 09:53
Compound	CAS Number	LOR	Unit		EM2320912-011	EM2320912-012	EM2320912-013	EM2320912-014	EM2320912-015
					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	<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
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		<0.0005	**0.0008**	<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	<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
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0146**	**0.0450**	**0.0270**	**0.108**	**0.0328**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0140**	**0.0415**	**0.0245**	**0.105**	**0.0269**
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0146**	**0.0437**	**0.0265**	**0.106**	**0.0315**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**120**	**99.1**	**96.8**	**101**	**87.3**
13C8-PFOA	---	0.0002	%		**104**	**104**	**102**	**104**	**100**

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD268_231123	0937_SD270_231123	----	----	----
			Sampling date / time	23-Nov-2023 10:54	23-Nov-2023 10:54	----	----	----
Compound	CAS Number	LOR	Unit	EM2320912-016	EM2320912-017	--------	--------	--------
				Result	Result	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**49.3**	**49.7**	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	**0.0003**	**0.0006**	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	**0.0004**	**0.0006**	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	**0.0162**	**0.0109**	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	**0.0186**	**0.0082**	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**1.60**	**0.629**	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	**0.0025**	**0.0068**	----	----	----
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	**0.0003**	**0.0002**	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	**0.0013**	**0.0012**	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	**0.0004**	**0.0004**	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	**0.0049**	**0.0025**	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
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	<0.0002	----	----	----
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**	**0.0110**	----	----	----

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD268_231123	0937_SD270_231123	----	----	----
				Sampling date / time	23-Nov-2023 10:54	23-Nov-2023 10:54	----	----	----
Compound	CAS Number	LOR	Unit		EM2320912-016	EM2320912-017	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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	**0.0005**	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	**0.0022**	----	----	----
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		<0.0005	<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	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**1.64**	**0.674**	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**1.62**	**0.640**	----	----	----
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**1.62**	**0.645**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**114**	**97.8**	----	----	----
13C8-PFOA	---	0.0002	%		**103**	**99.1**	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW001_231121	0937_SW002_231121	0937_SW004_231121	0937_SW033_231121	0937_SW034_231121
				Sampling date / time	21-Nov-2023 15:10	21-Nov-2023 09:07	21-Nov-2023 09:06	21-Nov-2023 08:56	21-Nov-2023 14:13
Compound	CAS Number	LOR	Unit		EM2320912-004	EM2320912-005	EM2320912-006	EM2320912-007	EM2320912-008
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	**0.08**	**0.59**	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	**0.07**	**0.49**	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**0.04**	**0.07**	**0.49**	**3.13**	**0.03**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0 02	µg/L		0 02	0 02	**0.03**	**0.23**	0 02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0 01	µg/L		**0.25**	**0.43**	**1.00**	**6.74**	**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		<0.02	<0.02	**0.04**	**0.18**	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	**0.02**	**0.12**	**0.61**	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	**0.03**	**0.11**	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	**0.03**	**0.17**	<0.01
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: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW001_231121	0937_SW002_231121	0937_SW004_231121	0937_SW033_231121	0937_SW034_231121
				Sampling date / time	21-Nov-2023 15:10	21-Nov-2023 09:07	21-Nov-2023 09:06	21-Nov-2023 08:56	21-Nov-2023 14:13
Compound	CAS Number	LOR	Unit		EM2320912-004	EM2320912-005	EM2320912-006	EM2320912-007	EM2320912-008
					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	**0.06**	**0.12**	<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		**0.29**	**0.52**	**1.95**	**12.4**	**0.23**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.29**	**0.50**	**1.49**	**9.87**	**0.23**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.29**	**0.52**	**1.85**	**11.6**	**0.23**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**85.9**	**96.1**	**91.0**	**99.6**	**89.8**
13C8-PFOA	---	0.02	%		**99.8**	**99.4**	**101**	**102**	**100.0**

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW035_231121	0937_SW041_231121	----	----	----
				Sampling date / time	21-Nov-2023 15:10	21-Nov-2023 09:50	----	----	----
Compound	CAS Number	LOR	Unit		EM2320912-009	EM2320912-010	--------	--------	--------
					Result	Result	----	----	----
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		**0.04**	**0.19**	----	----	----
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		**0.25**	**0.57**	----	----	----
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	**0.12**	----	----	----
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	**0.02**	----	----	----
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	----	----	----
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	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW035_231121	0937_SW041_231121	----	----	----
				Sampling date / time	21-Nov-2023 15:10	21-Nov-2023 09:50	---	---	---
Compound	CAS Number	LOR	Unit		EM2320912-009	EM2320912-010	--------	--------	--------
					Result	Result	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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	<0.05	----	----	----
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		**0.29**	**0.92**	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.29**	**0.76**	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.29**	**0.90**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**89.4**	**88.8**	----	----	----
13C8-PFOA	---	0.02	%		**101**	**102**	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Sub-Matrix: SEDIMENT		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	68	136
13C8-PFOA	---	69	133

Sub-Matrix: SURFACE WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320912**	Page	: 1 of 8
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60377	Issue Date	: 01-Dec-2023
Sampler	: [redacted]		
Site	: P003		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 17		
No. of samples analysed	: 17		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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: 5454849)									
EM2320799-001	Anonymous	EA055: Moisture Content	---	0.1	%	14.0	14.6	3.8	0% - 20%
EM2320910-010	Anonymous	EA055: Moisture Content	---	0.1	%	49.4	49.9	1.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 5454850)									
EM2320912-014	0937_SD035_231121	EA055: Moisture Content	---	0.1	%	49.5	49.0	1.1	0% - 20%
EM2321065-003	Anonymous	EA055: Moisture Content	---	0.1 (1.0)*	%	35.3	36.0	2.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0030	19.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763 23 1	0 0002	mg/kg	0 0150	0 0149	0 0	0% 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2320912-013	0937_SD034_231121	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0033	0.0035	6.6	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375 92 8	0 0002	mg/kg	0 0005	0 0005	0 0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0212	0.0207	2.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217) - continued									
EM2320910-009	Anonymous	EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0009	16.6	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320912-013	0937_SD034_231121	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0013	0.0014	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0004	0.0005	25.6	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217)									
EM2320910 009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754 91 6	0 0002	mg/kg	0 0002	0 0002	0 0	No Limit
		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
EM2320912-013	0937_SD034_231121	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355 31 9	0 0002	mg/kg	0 0002	0 0002	0 0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217) - continued									
EM2320912-013	0937_SD034_231121	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: 5455217)									
EM2320910-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320912-013	0937_SD034_231121	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0212	0.0199	6.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0187	0.0179	4.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0201	0.0190	5.6	0% - 20%
EM2320912-013	0937_SD034_231121	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0270	0.0272	0.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0245	0.0242	1.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0265	0.0264	0.4	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	109	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	96.4	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	95.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	94.0	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	90.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.6	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	110	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	102	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	90.5	70.0	130
EP231P: PFAS Sums (QCLot: 5455217)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453401)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	96.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	109	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	93.8	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	106	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.5	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453401)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	84.4	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	78.0	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.4	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	82.4	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	93.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.4	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	100	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	91.3	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.6	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.6	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453401)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	95.4	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	132	68.0	141

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453401) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	116	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.1	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.3	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	94.6	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453401)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	97.7	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	95.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	99.6	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	81.4	70.0	130
EP231P: PFAS Sums (QCLot: 5453401)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	96.5	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	77.6	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135

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: 5455217) - continued							
EM2320910-010	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	100	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	76.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.8	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	108	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	99.9	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	99.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.4	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.9	67.0	137
		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	92.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	91.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.6	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	100	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320912**	Page	: 1 of 6
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: P003	Issue Date	: 01-Dec-2023
Sampler	: [redacted]	No. of samples received	: 17
Order number	: 304300114	No. of samples analysed	: 17

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.**
- **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

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

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320910--010	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	---	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*		*Sample Date*	*Extraction / Preparation*			*Analysis*		
			Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)								
HDPE Soil Jar (EA055)								
0937_SD001_231121,	0937_SD033_231121,	**21-Nov-2023**	---	---	---	**28-Nov-2023**	05-Dec-2023	✓
0937_SD034_231121,	0937_SD035_231121,							
0937_SD041_231121								
HDPE Soil Jar (EA055)								
0937_SD268_231123,	0937_SD270_231123	**23-Nov-2023**	---	---	---	**28-Nov-2023**	07-Dec-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
0937_SD001_231121,	0937_SD033_231121,	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
0937_SD034_231121,	0937_SD035_231121,							
0937_SD041_231121								
HDPE Soil Jar (EP231X)								
0937_SD268_231123,	0937_SD270_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) 0937_SD001_231121, 0937_SD033_231121, 0937_SD034_231121, 0937_SD035_231121, 0937_SD041_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD268_231123, 0937_SD270_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) 0937_SD001_231121, 0937_SD033_231121, 0937_SD034_231121, 0937_SD035_231121, 0937_SD041_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD268_231123, 0937_SD270_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) 0937_SD001_231121, 0937_SD033_231121, 0937_SD034_231121, 0937_SD035_231121, 0937_SD041_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD268_231123, 0937_SD270_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) 0937_SD001_231121, 0937_SD033_231121, 0937_SD034_231121, 0937_SD035_231121, 0937_SD041_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
HDPE Soil Jar (EP231X) 0937_SD268_231123, 0937_SD270_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW319_231121, 0937_POT042_231121, 0937_POT051_231121, 0937_SW001_231121, 0937_SW002_231121, 0937_SW004_231121, 0937_SW033_231121, 0937_SW034_231121, 0937_SW035_231121, 0937_SW041_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X)								
0937_MW319_231121,	0937_POT042_231121,	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
0937_POT051_231121,	0937_SW001_231121,							
0937_SW002_231121,	0937_SW004_231121,							
0937_SW033_231121,	0937_SW034_231121,							
0937_SW035_231121,	0937_SW041_231121							
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X)								
0937_MW319_231121,	0937_POT042_231121,	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
0937_POT051_231121,	0937_SW001_231121,							
0937_SW002_231121,	0937_SW004_231121,							
0937_SW033_231121,	0937_SW034_231121,							
0937_SW035_231121,	0937_SW041_231121							
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
0937_MW319_231121,	0937_POT042_231121,	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
0937_POT051_231121,	0937_SW001_231121,							
0937_SW002_231121,	0937_SW004_231121,							
0937_SW033_231121,	0937_SW034_231121,							
0937_SW035_231121,	0937_SW041_231121							
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
0937_MW319_231121,	0937_POT042_231121,	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**29-Nov-2023**	19-May-2024	✓
0937_POT051_231121,	0937_SW001_231121,							
0937_SW002_231121,	0937_SW004_231121,							
0937_SW033_231121,	0937_SW034_231121,							
0937_SW035_231121,	0937_SW041_231121							

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	4	34	11.76	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60377 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/11 0325

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P003

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact? Yes No N/A

Free ice / frozen ice bricks present upon receipt? Yes No N/A

Random Sample Temperature on Receipt: °C

Other comments:

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_MW319_231121		21/11/2023 03:00 PM	WATER	ALS: 2 Non ALS: 0	No		X		
002	0937_POT042_231121		21/11/2023 08:32 AM	WATER	ALS: 2 Non ALS: 0	No		X		
003	0937_POT051_231121		21/11/2023 08:39 AM	WATER	ALS: 2 Non ALS: 0	No		X		
004	0937_SW001_231121		21/11/2023 03:10 PM	WATER	ALS: 2 Non ALS: 0	No		X		
005	0937_SW002_231121		21/11/2023 09:07 AM	WATER	ALS: 2 Non ALS: 0	No		X		
006	0937_SW004_231121		21/11/2023 09:06 AM	WATER	ALS: 2 Non ALS: 0	No		X		
007	0937_SW033_231121		21/11/2023 08:56 AM	WATER	ALS: 2 Non ALS: 0	No		X		

Environmental Division Melbourne

Work Order Reference

EM2320912

[redacted]

CHAIN OF CUSTODY

ALS COC#: 60377 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24 Ice 1325

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P003

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
008	0937_SW034_231121		21/11/2023 02:13 PM	WATER	ALS: 2 Non ALS: 0	No		X		
009	0937_SW035_231121		21/11/2023 03:10 PM	WATER	ALS: 2 Non ALS: 0	No		X		
010	0937_SW041_231121		21/11/2023 09:50 AM	WATER	ALS: 2 Non ALS: 0	No		X		
011	0937_SD001_231121		21/11/2023 03:11 PM	SOIL	ALS: 1 Non ALS: 0	No	X			
012	0937_SD033_231121		21/11/2023 09:08 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
013	0937_SD034_231121		21/11/2023 02:13 PM	SOIL	ALS: 1 Non ALS: 0	No	X			
014	0937_SD035_231121		21/11/2023 03:11 PM	SOIL	ALS: 1 Non ALS: 0	No	X			

CHAIN OF CUSTODY

COC#: **60377** *ALS Laboratory:* EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted]

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P003

ORDER NO: 304300114

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

PROJECT MANAGER: [redacted]
PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
015	0937_SD041_231121		21/11/2023 09:53 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
016	0937_SD268_231123		23/11/2023 10:54 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
017	0937_SD270_231123		23/11/2023 10:54 AM	SOIL	ALS: 1 Non ALS: 0	No	X			

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320913**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ---	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60378	Issue Date	: 30-Nov-2023 16:32
Sampler	: [redacted]		
Site	: P004		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_POT050_231116	----	----	----	----
				Sampling date / time	16-Nov-2023 20:47	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320913-001	--------	--------	--------	--------	
				Result	---	---	---	---	
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	<0.01	----	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	----	----	----	----	
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	<0.01	----	----	----	----	
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	----	----	----	----	
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	----	----	----	----	

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_POT050_231116	----	----	----	----
				Sampling date / time	16-Nov-2023 20:47	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320913-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**95.5**	----	----	----	----
13C8-PFOA	----	0.02	%		**99.0**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320913**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: +6138549 9609
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60378	Issue Date	: 30-Nov-2023
Sampler	: [redacted]		
Site	: P004		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

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: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453417)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	86.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	91.8	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.3	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.3	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.2	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453417)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	78.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	80.9	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	82.9	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	90.9	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	89.5	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.9	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	78.5	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	98.4	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	77.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	97.4	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453417)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	104	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	124	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	109	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	94.5	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	118	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	97.0	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	79.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453417)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453417) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.3	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	111	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	85.9	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.5	70.0	130
EP231P: PFAS Sums (QCLot: 5453417)								
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 PFAS (WA DER List)	---	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	: **EM2320913**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: P004	Issue Date	: 30-Nov-2023
Sampler	: [redacted]	No. of samples received	: 1
Order number	: 304300114	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **WATER**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
0937_POT050_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
0937_POT050_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
0937_POT050_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
0937_POT050_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
0937_POT050_231116	**16-Nov-2023**	**28-Nov-2023**	14 May 2024	✓	**28-Nov-2023**	14 May 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: **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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: **60378** *ALS Laboratory:* EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted] 24/11 1325

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P004

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_POT050_231116		~~26~~ 16/11/2023 08:47 PM	WATER	ALS: 2 Non ALS: 0	No	X		

SH 28/11

Environmental Division Melbourne
Work Order Reference
EM2320913

[redacted]

SH 27/11

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320914**	Page	: 1 of 9
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60379	Issue Date	: 01-Dec-2023 12:06
Sampler	: [redacted]		
Site	: P011		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 3		
No. of samples analysed	: 3		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW302_231117	----	----	----	----
				Sampling date / time	17-Nov-2023 20:46	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320914-001	--------	--------	--------	--------	
				Result	---	---	---	---	
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	**0.01**	----	----	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	**0.02**	----	----	----	----	
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	<0.01	----	----	----	----	
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	----	----	----	----	
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	----	----	----	----	

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW302_231117	----	----	----	----
				Sampling date / time	17-Nov-2023 20:46	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320914-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		**0.03**	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.03**	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.03**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**91.3**	----	----	----	----
13C8-PFOA	---	0.02	%		**100**	----	----	----	----

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD052_231121	----	----	----	----
			Sampling date / time	21-Nov-2023 10:30	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320914-003	--------	--------	--------	--------
				Result	---	---	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	**47.1**	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	**0.0003**	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	**0.0007**	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	**0.0186**	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	**0.0042**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.221**	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	**0.0004**	----	----	----	----
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	**0.0008**	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	**0.0028**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	**0.0007**	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	**0.0024**	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	----	----	----	----
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: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD052_231121	----	----	----	----
				Sampling date / time	21-Nov-2023 10:30	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320914-003	--------	--------	--------	--------
					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		<0.0005	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.252**	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.240**	----	----	----	----
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.247**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**102**	----	----	----	----
13C8-PFOA	---	0.0002	%		**103**	----	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW052_231121	----	----	----	----
				Sampling date / time	21-Nov-2023 10:29	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320914-002	--------	--------	--------	--------
					Result	---	---	---	---
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		**0.11**	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.33**	----	----	----	----
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		**0.04**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	----	----	----	----
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	----	----	----	----
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	----	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW052_231121	----	----	----	----
				Sampling date / time	21-Nov-2023 10:29	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320914-002	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		**0.50**	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.44**	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.50**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**108**	----	----	----	----
13C8-PFOA	---	0.02	%		**99.7**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Sub-Matrix: SEDIMENT		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	68	136
13C8-PFOA	---	69	133

Sub-Matrix: SURFACE WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320914**	Page	: 1 of 8
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60379	Issue Date	: 01-Dec-2023
Sampler	: [redacted]		
Site	: P011		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 3		
No. of samples analysed	: 3		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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: 5454850)									
EM2320912-014	Anonymous	EA055: Moisture Content	----	0.1	%	49.5	49.0	1.1	0% - 20%
EM2321065-003	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	35.3	36.0	2.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0030	19.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0150	0.0149	0.0	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0033	0.0035	6.6	0% - 50%
		EP231X Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0212	0.0207	2.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0009	16.6	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217) - continued									
EM2320910-009	Anonymous	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0013	0.0014	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0004	0.0005	25.6	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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
EM2320912-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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

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: 5455217) - continued									
EM2320912-013	Anonymous	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: 5455217)									
EM2320910-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320912-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0212	0.0199	6.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0187	0.0179	4.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0201	0.0190	5.6	0% - 20%
EM2320912-013	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0270	0.0272	0.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0245	0.0242	1.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0265	0.0264	0.4	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	109	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	96.4	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	95.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	94.0	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	90.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.6	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	110	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	102	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	90.5	70.0	130
EP231P: PFAS Sums (QCLot: 5455217)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453417)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	86.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	91.8	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.3	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.3	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.2	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453417)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	78.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	80.9	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	82.9	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	90.9	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	89.5	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.9	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	78.5	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	98.4	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	77.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	97.4	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453417)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	104	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	124	68.0	141

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453417) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	109	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	94.5	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	118	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	97.0	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	79.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453417)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.3	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	111	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	85.9	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.5	70.0	130
EP231P: PFAS Sums (QCLot: 5453417)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	96.5	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	77.6	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135

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: 5455217) - continued							
EM2320910-010	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	100	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	76.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.8	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	108	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	99.9	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	99.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.4	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.9	67.0	137
		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	92.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	91.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.6	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	100	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320914**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	[redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: P011	Issue Date	: 01-Dec-2023
Sampler	: [redacted]	No. of samples received	: 3
Order number	: 304300114	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.**
- **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

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

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320910--010	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	---	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)							
HDPE Soil Jar (EA055) 0937_SD052_231121	**21-Nov-2023**	---	---	---	**28-Nov-2023**	05-Dec-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X) 0937_SD052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X) 0937_SD052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) 0937_SD052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) 0937_SD052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) 0937_SD052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW302_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_MW302_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_MW302_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW302_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_MW302_231117	**17-Nov-2023**	**28-Nov-2023**	15-May-2024	✓	**28-Nov-2023**	15-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW052_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-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	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60379 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 1320

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P011

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_MW302_231117		17/11/2023 08:46 PM	WATER	ALS: 2 Non ALS: 0	No		X		
002	0937_SW052_231121		21/11/2023 10:29 AM	WATER	ALS: 2 Non ALS: 0	No		X		
003	0937_SD052_231121		21/11/2023 10:30 AM	SOIL	ALS: 1 Non ALS: 0	No	X			

SH 28/11

Environmental Division Melbourne
Work Order Reference
EM2320914

[redacted]

SH 27/11

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320915**	Page	: 1 of 7
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ---	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60380	Issue Date	: 01-Dec-2023 12:07
Sampler	: [redacted]		
Site	: P013		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 4		
No. of samples analysed	: 4		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD031_231123	0937_SD032_231123	----	----	----
			Sampling date / time	23-Nov-2023 08:29	23-Nov-2023 10:00	----	----	----
Compound	CAS Number	LOR	Unit	EM2320915-003	EM2320915-004	--------	--------	--------
				Result	Result	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	0.1	%	**47.8**	**22.0**	----	----	----
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	**0.0013**	**0.0005**	----	----	----
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	**0.0014**	**0.0035**	----	----	----
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	**0.0005**	<0.0002	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
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	<0.0002	----	----	----
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	----	----	----

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD031_231123	0937_SD032_231123	----	----	----
				Sampling date / time	23-Nov-2023 08:29	23-Nov-2023 10:00	----	----	----
Compound	CAS Number	LOR	Unit		EM2320915-003	EM2320915-004	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.0005	<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	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0032**	**0.0040**	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0027**	**0.0040**	----	----	----
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0032**	**0.0040**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**102**	**106**	----	----	----
13C8-PFOA	---	0.0002	%		**103**	**104**	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW031_231123	0937_SW032_231123	----	----	----
				Sampling date / time	23-Nov-2023 08:28	23-Nov-2023 09:59	---	---	---
Compound	CAS Number	LOR	Unit		EM2320915-001	EM2320915-002	--------	--------	--------
					Result	Result	---	---	---
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		**0.03**	**0.03**	----	----	----
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	<0.01	----	----	----
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	----	----	----
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	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW031_231123	0937_SW032_231123	----	----	----
				Sampling date / time	23-Nov-2023 08:28	23-Nov-2023 09:59	----	----	----
Compound	CAS Number	LOR	Unit		EM2320915-001	EM2320915-002	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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	<0.05	----	----	----
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		**0.05**	**0.05**	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.05**	**0.05**	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.05**	**0.05**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**94.2**	**104**	----	----	----
13C8-PFOA	---	0.02	%		**98.1**	**101**	----	----	----

Surrogate Control Limits

Sub-Matrix: **SEDIMENT**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: **SURFACE WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320915**	Page	: 1 of 8
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60380	Issue Date	: 01-Dec-2023
Sampler	: [redacted]		
Site	: P013		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 4		
No. of samples analysed	: 4		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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: 5454850)									
EM2320912-014	Anonymous	EA055: Moisture Content	----	0.1	%	49.5	49.0	1.1	0% - 20%
EM2321065-003	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	35.3	36.0	2.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0030	19.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0150	0.0149	0.0	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0033	0.0035	6.6	0% - 50%
		EP231X Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0212	0.0207	2.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0009	16.6	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217) - continued									
EM2320910-009	Anonymous	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0013	0.0014	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0004	0.0005	25.6	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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
EM2320912-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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

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: 5455217) - continued									
EM2320912-013	Anonymous	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: 5455217)									
EM2320910-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320912-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0212	0.0199	6.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0187	0.0179	4.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0201	0.0190	5.6	0% - 20%
EM2320912-013	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0270	0.0272	0.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0245	0.0242	1.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0265	0.0264	0.4	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	109	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	96.4	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	95.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	94.0	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	90.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.6	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	110	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	102	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	90.5	70.0	130
EP231P: PFAS Sums (QCLot: 5455217)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453404)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	85.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	92.7	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	90.9	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.2	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453404)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	82.8	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	84.6	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	91.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.9	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.2	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	89.0	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	97.9	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	127	68.0	141

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	117	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	107	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	92.4	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.9	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453404)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.4	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	94.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	90.0	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.2	70.0	130
EP231P: PFAS Sums (QCLot: 5453404)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	96.5	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	77.6	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135

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: 5455217) - continued							
EM2320910-010	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	100	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	76.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.8	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	108	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	99.9	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	99.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.4	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.9	67.0	137
		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	92.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	91.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.6	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	100	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320915**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: P013	Issue Date	: 01-Dec-2023
Sampler	: [redacted]	No. of samples received	: 4
Order number	: 304300114	No. of samples analysed	: 4

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.**
- **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

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

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320910--010	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*		*Sample Date*	*Extraction / Preparation*			*Analysis*		
			Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)								
HDPE Soil Jar (EA055)								
0937_SD031_231123,	0937_SD032_231123	**23-Nov-2023**	**----**	----	----	**28-Nov-2023**	07-Dec-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)								
0937_SD031_231123,	0937_SD032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)								
0937_SD031_231123,	0937_SD032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X)								
0937_SD031_231123,	0937_SD032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X)								
0937_SD031_231123,	0937_SD032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X)								
0937_SD031_231123,	0937_SD032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)		Sample Date	Extraction / Preparation			Analysis		
			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
0937_SW031_231123,	0937_SW032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X)								
0937_SW031_231123,	0937_SW032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X)								
0937_SW031_231123,	0937_SW032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X)								
0937_SW031_231123,	0937_SW032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
0937_SW031_231123,	0937_SW032_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-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	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60380 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/11 13:45

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P013

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_SW031_231123		23/11/2023 08:28 AM	WATER	ALS: 2 Non ALS: 0	No		X		
002	0937_SW032_231123		23/11/2023 09:59 AM	WATER	ALS: 2 Non ALS: 0	No		X		
003	0937_SD031_231123		23/11/2023 08:29 AM	SOIL	ALS: 1 Non ALS: 0	No	X			
004	0937_SD032_231123		23/11/2023 10:00 AM	SOIL	ALS: 1 Non ALS: 0	No	X			

Environmental Division
Melbourne
Work Order Reference
EM2320915

[redacted]

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320916**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ---	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60381	Issue Date	: 30-Nov-2023 16:28
Sampler	: [redacted]		
Site	: P028		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)			Sample ID	0937_POT034_231116	----	----	----	----
			Sampling date / time	16-Nov-2023 20:48	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320916-001	--------	--------	--------	--------
				Result	---	---	---	---
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	<0.01	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	----	----	----	----
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	<0.01	----	----	----	----
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	----	----	----	----
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	----	----	----	----

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_POT034_231116	----	----	----	----
				Sampling date / time	16-Nov-2023 20:48	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320916-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		79.1	----	----	----	----
13C8-PFOA	----	0.02	%		97.9	----	----	----	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320916**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60381	Issue Date	: 30-Nov-2023
Sampler	: [redacted]		
Site	: P028		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

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: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453417)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	86.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	91.8	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	92.3	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.3	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	96.2	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453417)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	78.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	80.9	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	82.9	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	90.9	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	89.5	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	95.9	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	78.5	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	85.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	98.4	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	77.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	97.4	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453417)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	104	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	124	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	109	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	94.5	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	118	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	97.0	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	79.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453417)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453417) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.3	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	111	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	85.9	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.5	70.0	130
EP231P: PFAS Sums (QCLot: 5453417)								
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 PFAS (WA DER List)	---	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	: **EM2320916**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: P028	Issue Date	: 30-Nov-2023
Sampler	: [redacted]	No. of samples received	: 1
Order number	: 304300114	No. of samples analysed	: 1

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **WATER**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_POT034_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_POT034_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_POT034_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_POT034_231116	**16-Nov-2023**	**28-Nov-2023**	14-May-2024	✓	**28-Nov-2023**	14-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_POT034_231116	**16-Nov-2023**	**28-Nov-2023**	14 May 2024	✓	**28-Nov-2023**	14 May 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: **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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	4	**25.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	4	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60381 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 13:25

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: P028

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_POT034_231116		~~20~~16/11/2023 08:48 PM	WATER	ALS: 2 Non ALS: 0	No	X		

SH 28/11.

Environmental Division Melbourne

Work Order Reference

EM2320916

[redacted]

SH 27/11

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320917**	Page	: 1 of 7
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60382	Issue Date	: 01-Dec-2023 12:35
Sampler	: [redacted]		
Site	: PV		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 3		
No. of samples analysed	: 3		

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*
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD019_231121	----	----	----	----
			Sampling date / time	21-Nov-2023 17:21	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320917-003	--------	--------	--------	--------
				Result	---	---	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	**47.9**	----	----	----	----
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	<0.0002	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0009**	----	----	----	----
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	<0.0002	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	----	----	----	----
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: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD019_231121	----	----	----	----
				Sampling date / time	21-Nov-2023 17:21	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320917-003	--------	--------	--------	--------
					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		<0.0005	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg		**0.0009**	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0009**	----	----	----	----
Sum of PFAS (WA DER List)	---	0.0002	mg/kg		**0.0009**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%		**109**	----	----	----	----
13C8-PFOA	---	0.0002	%		**110**	----	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW019_231121	0937_SW092_231121	----	----	----
				Sampling date / time	21-Nov-2023 17:21	21-Nov-2023 17:51	----	----	----
Compound	CAS Number	LOR	Unit		EM2320917-001	EM2320917-002	--------	--------	--------
					Result	Result	----	----	----
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	<0.01	----	----	----
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		**0.03**	**0.03**	----	----	----
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	<0.01	----	----	----
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	----	----	----
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	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW019_231121	0937_SW092_231121	----	----	----
				Sampling date / time	21-Nov-2023 17:21	21-Nov-2023 17:51	---	---	---
Compound	CAS Number	LOR	Unit		EM2320917-001	EM2320917-002	--------	--------	--------
					Result	Result	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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	<0.05	----	----	----
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		**0.03**	**0.03**	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.03**	**0.03**	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.03**	**0.03**	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**95.9**	**95.8**	----	----	----
13C8-PFOA	---	0.02	%		**99.4**	**102**	----	----	----

Surrogate Control Limits

Sub-Matrix: **SEDIMENT**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: **SURFACE WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320917**	Page	: 1 of 8
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60382	Issue Date	: 01-Dec-2023
Sampler	: [redacted]		
Site	: PV		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 3		
No. of samples analysed	: 3		

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*
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
[redacted]	Senior Organic Chemist	Melbourne Organics, Springvale, VIC

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
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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: 5454850)									
EM2320912-014	Anonymous	EA055: Moisture Content	----	0.1	%	49.5	49.0	1.1	0% - 20%
EM2321065-003	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	35.3	36.0	2.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0030	19.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0150	0.0149	0.0	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0033	0.0035	6.6	0% - 50%
		EP231X Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0212	0.0207	2.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0009	16.6	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217) - continued									
EM2320910-009	Anonymous	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0013	0.0014	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0004	0.0005	25.6	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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
EM2320912-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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

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: 5455217) - continued									
EM2320912-013	Anonymous	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: 5455217)									
EM2320910-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320912-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0212	0.0199	6.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0187	0.0179	4.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0201	0.0190	5.6	0% - 20%
EM2320912-013	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0270	0.0272	0.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0245	0.0242	1.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0265	0.0264	0.4	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	109	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	96.4	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	95.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	94.0	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	90.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.6	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	110	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	102	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	90.5	70.0	130
EP231P: PFAS Sums (QCLot: 5455217)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453404)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	85.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	92.7	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	90.9	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.2	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453404)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	82.8	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	84.6	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	91.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.9	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.2	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	89.0	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	97.9	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	127	68.0	141

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	117	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	107	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	92.4	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.9	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453404)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.4	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	94.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	90.0	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.2	70.0	130
EP231P: PFAS Sums (QCLot: 5453404)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	96.5	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	77.6	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135

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: 5455217) - continued							
EM2320910-010	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	100	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	76.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.8	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	108	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	99.9	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	99.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.4	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.9	67.0	137
		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	92.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	91.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.6	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	100	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320917**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: PV	Issue Date	: 01-Dec-2023
Sampler	: [redacted]	No. of samples received	: 3
Order number	: 304300114	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.**
- **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

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

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320910--010	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	---	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)							
HDPE Soil Jar (EA055)							
0937_SD019_231121	**21-Nov-2023**	---	---	---	**28-Nov-2023**	05-Dec-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
0937_SD019_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
0937_SD019_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
0937_SD019_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
0937_SD019_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
0937_SD019_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
0937_SW019_231121, 0937_SW092_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X)							
0937_SW019_231121, 0937_SW092_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
0937_SW019_231121, 0937_SW092_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
0937_SW019_231121, 0937_SW092_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
0937_SW019_231121, 0937_SW092_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-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	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60382 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: 24/11 13:24

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: PV

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_SW019_231121		21/11/2023 05:21 PM	WATER	ALS: 2 Non ALS: 0	No		X		
002	0937_SW092_231121		21/11/2023 05:51 PM	WATER	ALS: 2 Non ALS: 0	No		X		
003	0937_SD019_231121		21/11/2023 05:21 PM	SOIL	ALS: 1 Non ALS: 0	No	X			

Environmental Division Melbourne
Work Order Reference
EM2320917

[redacted]

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320918**	Page	: 1 of 7
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60383	Issue Date	: 01-Dec-2023 12:06
Sampler	: [redacted]		
Site	: SRW		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 2		
No. of samples analysed	: 2		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SEDIMENT (Matrix: SOIL)			Sample ID	0937_SD049_231123	----	----	----	----
			Sampling date / time	23-Nov-2023 12:33	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320918-002	--------	--------	--------	--------
				Result	---	---	---	---
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	---	0.1	%	24.2	----	----	----	----
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	<0.0002	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	----	----	----	----
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	<0.0002	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	----	----	----	----
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: SEDIMENT (Matrix: SOIL)				Sample ID	0937_SD049_231123	----	----	----	----
				Sampling date / time	23-Nov-2023 12:33	---	---	---	---
Compound	CAS Number	LOR	Unit	EM2320918-002	--------	--------	--------	--------	
				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	<0.0005	----	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	----	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	----	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	---	0.0002	mg/kg	<0.0002	----	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.0002	%	**94.0**	----	----	----	----	
13C8-PFOA	---	0.0002	%	**104**	----	----	----	----	

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW049_231123	----	----	----	----
				Sampling date / time	23-Nov-2023 12:32	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320918-001	--------	--------	--------	--------
					Result	---	---	---	---
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 01	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	----	----	----	----
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		<0.01	----	----	----	----
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	----	----	----	----
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	----	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW049_231123	----	----	----	----
				Sampling date / time	23-Nov-2023 12:32	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320918-001	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		95.4	----	----	----	----
13C8-PFOA	---	0.02	%		99.1	----	----	----	----

Surrogate Control Limits

Sub-Matrix: **SEDIMENT**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	133

Sub-Matrix: **SURFACE WATER**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320918**	Page	: 1 of 8
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60383	Issue Date	: 01-Dec-2023
Sampler	: [redacted]		
Site	: SRW		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 2		
No. of samples analysed	: 2		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
[redacted]	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC

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
* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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: 5454850)									
EM2320912-014	Anonymous	EA055: Moisture Content	----	0.1	%	49.5	49.0	1.1	0% - 20%
EM2321065-003	Anonymous	EA055: Moisture Content	----	0.1 (1.0)*	%	35.3	36.0	2.0	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0037	0.0030	19.9	0% - 50%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0150	0.0149	0.0	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0033	0.0035	6.6	0% - 50%
		EP231X Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0005	0.0005	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0212	0.0207	2.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0009	16.6	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5455217) - continued									
EM2320910-009	Anonymous	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EM2320912-013	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0013	0.0014	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0004	0.0005	25.6	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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
EM2320912-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		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

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: 5455217) - continued									
EM2320912-013	Anonymous	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: 5455217)									
EM2320910-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2320912-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 5455217)									
EM2320910-009	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0212	0.0199	6.3	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0187	0.0179	4.4	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0201	0.0190	5.6	0% - 20%
EM2320912-013	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0270	0.0272	0.7	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0245	0.0242	1.2	0% - 20%
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0265	0.0264	0.4	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			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	109	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	96.4	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00114 mg/kg	95.0	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	94.0	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	90.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.3	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.9	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.0	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	99.0	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	91.2	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	108	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.6	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	110	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00119 mg/kg	102	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	106	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	90.5	70.0	130
EP231P: PFAS Sums (QCLot: 5455217)								
EP231X: Sum of PFAS	---	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	---	---	---	---
EP231X: Sum of PFAS (WA DER List)	---	0.0002	mg/kg	<0.0002	---	---	---	---

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453404)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	85.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	92.7	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	90.9	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.2	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453404)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	82.8	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	84.6	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	91.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.9	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.2	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	89.0	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	97.9	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	127	68.0	141

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	117	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	107	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	92.4	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.9	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453404)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.4	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	94.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	90.0	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.2	70.0	130
EP231P: PFAS Sums (QCLot: 5453404)								
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 PFAS (WA DER List)	---	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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	100	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	76.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	96.5	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	77.6	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.8	71.0	135

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: 5455217) - continued							
EM2320910-010	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	100	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	76.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	93.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	89.8	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	108	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	99.9	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	99.4	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	88.4	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	95.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.9	67.0	137
		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	92.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	91.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	95.0	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	82.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.8	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5455217)							
EM2320910-010	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	96.6	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	100	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	80.7	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2320918**	Page	: 1 of 5
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: SRW	Issue Date	: 01-Dec-2023
Sampler	: [redacted]	No. of samples received	: 2
Order number	: 304300114	No. of samples analysed	: 2

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.**
- **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

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

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
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2320910--010	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	---	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content (Dried @ 105-110°C)							
HDPE Soil Jar (EA055)							
0937_SD049_231123	**23-Nov-2023**	---	---	---	**28-Nov-2023**	07-Dec-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
0937_SD049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
0937_SD049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
0937_SD049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
0937_SD049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **SOIL**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) 0937_SD049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**30-Nov-2023**	07-Jan-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_SW049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_SW049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_SW049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_SW049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_SW049_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-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	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
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.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
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.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60383 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	[redacted] DATE TIME: 24/11 13:25

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: SRW

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED			
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	SOIL: PFAS SEDIMENT	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_SW049_231123		23/11/2023 12:32 PM	WATER	ALS: 2 Non ALS: 0	No		X		
002	0937_SD049_231123		23/11/2023 12:33 PM	SOIL	ALS: 1 Non ALS: 0	No	X			

Environmental Division Melbourne

Work Order Reference

EM2320918

[redacted]

CERTIFICATE OF ANALYSIS

Work Order	: **EM2320919**	Page	: 1 of 11
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ---	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023 13:25
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60384	Issue Date	: 30-Nov-2023 16:29
Sampler	: [redacted]		
Site	: WGCMA		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 15		
No. of samples analysed	: 15		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW008_231120	0937_MW009_231120	0937_MW010_231123	0937_MW015_231120	0937_MW016_231120
				Sampling date / time	20-Nov-2023 20:44	20-Nov-2023 20:45	23-Nov-2023 12:23	20-Nov-2023 20:48	20-Nov-2023 20:45
Compound	CAS Number	LOR	Unit		EM2320919-001	EM2320919-002	EM2320919-003	EM2320919-004	EM2320919-005
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0 02	µg/L		<0.02	**0.06**	0 02	0 02	0 02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0 02	µg/L		0 02	**0.03**	0 02	0 02	0 02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		**0.06**	**0.20**	<0.01	**0.03**	**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		**0.19**	**0.59**	<0.01	**0.08**	**0.06**
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**	**0.07**	<0.02	<0.02	<0.02
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		<0.01	**0.01**	<0.01	<0.01	<0.01
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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW008_231120	0937_MW009_231120	0937_MW010_231123	0937_MW015_231120	0937_MW016_231120
				Sampling date / time	20-Nov-2023 20:44	20-Nov-2023 20:45	23-Nov-2023 12:23	20-Nov-2023 20:48	20-Nov-2023 20:45
Compound	CAS Number	LOR	Unit		EM2320919-001	EM2320919-002	EM2320919-003	EM2320919-004	EM2320919-005
					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	<0.05	<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		0.27	1.05	<0.01	0.11	0.10
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		0.25	0.79	<0.01	0.11	0.10
Sum of PFAS (WA DER List)	---	0.01	µg/L		0.27	1.02	<0.01	0.11	0.10
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		106	87.1	95.0	97.2	103
13C8-PFOA	---	0.02	%		98.9	99.8	101	98.2	104

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW304_231121	0937_MW310_231121	0937_MW312_231121	0937_MW316_231120	0937_MW318_231120
				Sampling date / time	21-Nov-2023 08:17	21-Nov-2023 07:58	21-Nov-2023 07:47	20-Nov-2023 19:23	20-Nov-2023 19:24
Compound	CAS Number	LOR	Unit		EM2320919-006	EM2320919-007	EM2320919-008	EM2320919-009	EM2320919-010
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		**0.05**	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		**0.05**	**0.08**	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0 01	µg/L		**0.37**	**0.62**	0 01	0 01	**0.03**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0 02	µg/L		**0.02**	**0.05**	0 02	0 02	0 02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**1.08**	**1.21**	<0.01	**0.01**	**0.11**
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		**0.11**	**0.16**	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0 02	µg/L		**0.15**	**0.26**	0 02	0 02	0 02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		**0.05**	**0.04**	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		**0.02**	**0.03**	<0.01	<0.01	<0.01
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: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW304_231121	0937_MW310_231121	0937_MW312_231121	0937_MW316_231120	0937_MW318_231120
				Sampling date / time	21-Nov-2023 08:17	21-Nov-2023 07:58	21-Nov-2023 07:47	20-Nov-2023 19:23	20-Nov-2023 19:24
Compound	CAS Number	LOR	Unit		EM2320919-006	EM2320919-007	EM2320919-008	EM2320919-009	EM2320919-010
					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		**0.50**	**0.37**	<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		**2.40**	**2.82**	<0.01	<0.01	**0.14**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**1.45**	**1.83**	<0.01	<0.01	**0.14**
Sum of PFAS (WA DER List)	---	0.01	µg/L		**2.33**	**2.69**	<0.01	<0.01	**0.14**
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**123**	**110**	**98.7**	**126**	**92.8**
13C8-PFOA	---	0.02	%		**115**	**118**	**113**	**116**	**109**

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW321_231120	----	----	----	----
				Sampling date / time	20-Nov-2023 07:25	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320919-011	--------	--------	--------	--------
					Result	---	---	---	---
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		**0.04**	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		**0.11**	----	----	----	----
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		**0.05**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	----	----	----	----
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	----	----	----	----
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	----	----	----	----

Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	0937_MW321_231120	----	----	----	----
				Sampling date / time	20-Nov-2023 07:25	---	---	---	---
Compound	CAS Number	LOR	Unit		EM2320919-011	--------	--------	--------	--------
					Result	---	---	---	---
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
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		**0.22**	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		**0.15**	----	----	----	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		**0.22**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**115**	----	----	----	----
13C8-PFOA	---	0.02	%		**114**	----	----	----	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW012_231122	0937_SW077_231122	0937_SW080_231122	0937_SW093_231121	----
				Sampling date / time	22-Nov-2023 11:01	22-Nov-2023 16:11	22-Nov-2023 07:40	21-Nov-2023 17:12	----
Compound	CAS Number	LOR	Unit		EM2320919-012	EM2320919-013	EM2320919-014	EM2320919-015	--------
					Result	Result	Result	Result	----
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	<0.01	<0.01	----
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		<0.01	**0.02**	0 01	0 01	----
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		<0.01	<0.01	<0.01	<0.01	----
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	----
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	----

Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	0937_SW012_231122	0937_SW077_231122	0937_SW080_231122	0937_SW093_231121	----
				Sampling date / time	22-Nov-2023 11:01	22-Nov-2023 16:11	22-Nov-2023 07:40	21-Nov-2023 17:12	----
Compound	CAS Number	LOR	Unit		EM2320919-012	EM2320919-013	EM2320919-014	EM2320919-015	--------
					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	----
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		<0.01	**0.02**	<0.01	<0.01	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	**0.02**	<0.01	<0.01	----
Sum of PFAS (WA DER List)	---	0.01	µg/L		<0.01	**0.02**	<0.01	<0.01	----
EP231S: PFAS Surrogate									
13C4-PFOS	---	0.02	%		**108**	**119**	**120**	**105**	----
13C8-PFOA	---	0.02	%		**115**	**111**	**113**	**114**	----

Surrogate Control Limits

Sub-Matrix: GROUNDWATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Sub-Matrix: SURFACE WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

QUALITY CONTROL REPORT

Work Order	: **EM2320919**	Page	: 1 of 4
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Contact	: [redacted]
Address	: [redacted]	Address	: [redacted]
Telephone	: ----	Telephone	: [redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Order number	: 304300114	Date Analysis Commenced	: 28-Nov-2023
C-O-C number	: 60384	Issue Date	: 30-Nov-2023
Sampler	: [redacted]		
Site	: WGCMA		
Quote number	: SY/139/19_East Sale		
No. of samples received	: 15		
No. of samples analysed	: 15		

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*
[redacted]	2IC Organic Chemist	Melbourne Organics, Springvale, VIC

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%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

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: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5453404)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	85.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	92.7	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	90.9	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.238 µg/L	96.2	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	98.3	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	94.6	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5453404)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	82.8	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	84.6	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	88.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	91.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.9	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	89.2	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	89.0	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	89.8	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	97.9	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5453404)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	102	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	127	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	117	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	104	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	107	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	92.4	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	91.9	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453404)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5453404) - continued								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	94.4	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	94.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	90.0	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	74.2	70.0	130
EP231P: PFAS Sums (QCLot: 5453404)								
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 PFAS (WA DER List)	---	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	: **EM2320919**	Page	: 1 of 6
Client	: **STANTEC AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: [redacted]	Telephone	[redacted]
Project	: VIC_0937_PFASOMP_23	Date Samples Received	: 24-Nov-2023
Site	: WGCMA	Issue Date	: 30-Nov-2023
Sampler	[redacted]	No. of samples received	: 15
Order number	: 304300114	No. of samples analysed	: 15

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

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

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

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

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

Matrix: **WATER**

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

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW008_231120, 0937_MW009_231120, 0937_MW015_231120, 0937_MW016_231120, 0937_MW316_231120, 0937_MW318_231120, 0937_MW321_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW304_231121, 0937_MW310_231121, 0937_MW312_231121, 0937_SW093_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW012_231122, 0937_SW077_231122, 0937_SW080_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**28-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW010_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) 0937_MW008_231120, 0937_MW009_231120, 0937_MW015_231120, 0937_MW016_231120, 0937_MW316_231120, 0937_MW318_231120, 0937_MW321_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW304_231121, 0937_MW310_231121, 0937_MW312_231121, 0937_SW093_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW012_231122, 0937_SW077_231122, 0937_SW080_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**28-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW010_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) 0937_MW008_231120, 0937_MW009_231120, 0937_MW015_231120, 0937_MW016_231120, 0937_MW316_231120, 0937_MW318_231120, 0937_MW321_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW304_231121, 0937_MW310_231121, 0937_MW312_231121, 0937_SW093_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW012_231122, 0937_SW077_231122, 0937_SW080_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**28-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW010_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) 0937_MW008_231120, 0937_MW009_231120, 0937_MW015_231120, 0937_MW016_231120, 0937_MW316_231120, 0937_MW318_231120, 0937_MW321_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW304_231121, 0937_MW310_231121, 0937_MW312_231121, 0937_SW093_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW012_231122, 0937_SW077_231122, 0937_SW080_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**28-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW010_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-2024	✓

Matrix: **WATER**

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

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) 0937_MW008_231120, 0937_MW009_231120, 0937_MW015_231120, 0937_MW016_231120, 0937_MW316_231120, 0937_MW318_231120, 0937_MW321_231120	**20-Nov-2023**	**28-Nov-2023**	18-May-2024	✓	**28-Nov-2023**	18-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW304_231121, 0937_MW310_231121, 0937_MW312_231121, 0937_SW093_231121	**21-Nov-2023**	**28-Nov-2023**	19-May-2024	✓	**28-Nov-2023**	19-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_SW012_231122, 0937_SW077_231122, 0937_SW080_231122	**22-Nov-2023**	**28-Nov-2023**	20-May-2024	✓	**28-Nov-2023**	20-May-2024	✓
HDPE (no PTFE) (EP231X) 0937_MW010_231123	**23-Nov-2023**	**28-Nov-2023**	21-May-2024	✓	**28-Nov-2023**	21-May-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: **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)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	0	20	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

CHAIN OF CUSTODY

COC#: 60384 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME: [redacted] 24/11 1375

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: WGCMA

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER: [redacted]

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO: [redacted]

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
001	0937_MW008_231120		20/11/2023 08:44 PM	WATER	ALS: 2 Non ALS: 0	No	X		
002	0937_MW009_231120		20/11/2023 08:45 PM	WATER	ALS: 2 Non ALS: 0	No	X		
003	0937_MW010_231123		23/11/2023 12:23 PM	WATER	ALS: 2 Non ALS: 0	No	X		
004	0937_MW015_231120		20/11/2023 08:48 PM	WATER	ALS: 2 Non ALS: 0	No	X		
005	0937_MW016_231120		20/11/2023 08:45 PM	WATER	ALS: 2 Non ALS: 0	No	X		
006	0937_MW304_231121		21/11/2023 08:17 AM	WATER	ALS: 2 Non ALS: 0	No	X		
007	0937_MW310_231121		21/11/2023 07:58 AM	WATER	ALS: 2 Non ALS: 0	No	X		

Environmental Division Melbourne

Work Order Reference

EM2320919

[redacted]

SY 27/11

CHAIN OF CUSTODY

(ALS) COC#: **60384** *ALS Laboratory:* EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: WGCMA

ORDER NO: 304300114

PROJECT MANAGER: [redacted]

PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS: 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION SY28/11	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
008	0937_MW312_231121		21/11/2023 07:47 AM	WATER	ALS: 2 Non ALS: 0	No	X		
009	0937_MW316_231120		20/11/2023 07:23 PM	WATER	ALS: 2 Non ALS: 0	No	X		
010	0937_MW318_231120		20/11/2023 07:24 PM	WATER	ALS: 2 Non ALS: 0	No	X		
011	0937_MW321_231120	20	21/11/2023 07:25 AM	WATER	ALS: 2 Non ALS: 0	No	X		
012	0937_SW012_231122		22/11/2023 11:01 AM	WATER	ALS: 2 Non ALS: 0	No	X		
013	0937_SW077_231122		22/11/2023 04:11 PM	WATER	ALS: 2 Non ALS: 0	No	X		
014	0937_SW080_231122		22/11/2023 07:40 AM	WATER	ALS: 2 Non ALS: 0	No	X		

CHAIN OF CUSTODY

ALS COC#: 60384 ALS Laboratory: EM Melbourne Environmental

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
DATE TIME:	DATE TIME:	DATE TIME:	DATE TIME:

CLIENT: MWHAUS - STANTEC AUSTRALIA PTY LTD

PROJECT: VIC_0937_PFASOMP_23

SITE: WGCMA

ORDER NO: 304300114

PROJECT MANAGER: [redacted]
PRIMARY SAMPLER:

CONTACT PH: SAMPLER MOBILE: 0475 791

QUOTE NO: SY/139/19_East Sale / EM2022MWHAUS0001

EMAIL REPORTS TO: [redacted]

EMAIL INVOICES TO:

TURNAROUND REQUIREMENTS : 5 Days

Biohazard info:

LABORATORY USE ONLY (Circle)

Custody Seal intact?	Yes	No	N/A
Free ice / frozen ice bricks present upon receipt?	Yes	No	N/A
Random Sample Temperature on Receipt:		°C	
Other comments:			

SAMPLE DETAILS							ANALYSIS REQUIRED		
SAMPLE	NAME	DESCRIPTION	DATE / TIME	MATRIX	TOTAL BOTTLES	ON HOLD	WATER: PFAS WATER	ALTERNATIVE ANALYSIS	ADDITIONAL INFORMATION
015	0937_SW093_231121		21/11/2023 05:12 PM	WATER	ALS: 2 Non ALS: 0	No	X		

Stantec Australia Pty Ltd
[redacted]
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: [redacted]

Report **1048259-W**
Project name RAAF Base East Sale
Project ID 304300114
Received Date Nov 27, 2023

Client Sample ID			**0937_QC200_231115**	**0937_QC201_231115**	**0937_QC202_231115**	**0937_QC203_231115**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M23-No0066892**	**M23-No0066893**	**M23-No0066894**	**M23-No0066895**
Date Sampled			**Nov 15, 2023**	**Nov 15, 2023**	**Nov 15, 2023**	**Nov 15, 2023**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.16	5.5	< 0.05	0.08
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.10	7.0	< 0.01	0.23
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.46	35	0.03	0.40
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.05	[N09]2.8	< 0.01	[N09]0.08
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.11	[N09]7.2	< 0.01	[N09]0.10
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 1	< 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	%	77	125	82	91
13C5-PFPeA (surr.)	1	%	99	134	103	113
13C5-PFHxA (surr.)	1	%	97	127	98	105
13C4-PFHpA (surr.)	1	%	123	124	104	103
13C8-PFOA (surr.)	1	%	112	113	96	90
13C5-PFNA (surr.)	1	%	125	114	108	123
13C6-PFDA (surr.)	1	%	95	19	97	117
13C2-PFUnDA (surr.)	1	%	91	84	78	105
13C2-PFDoDA (surr.)	1	%	73	74	70	86
13C2-PFTeDA (surr.)	1	%	68	92	87	84
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	107	99	96
D3-N-MeFOSA (surr.)	1	%	66	121	61	52

Client Sample ID			0937_QC200_231115	0937_QC201_231115	0937_QC202_231115	0937_QC203_231115
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-No0066892	M23-No0066893	M23-No0066894	M23-No0066895
Date Sampled			Nov 15, 2023	Nov 15, 2023	Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	54	86	47	50
D7-N-MeFOSE (surr.)	1	%	89	101	88	78
D9-N-EtFOSE (surr.)	1	%	90	104	94	85
D5-N-EtFOSAA (surr.)	1	%	90	91	84	105
D3-N-MeFOSAA (surr.)	1	%	93	89	88	104
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.47	[N09]28	0.03	[N09]0.14
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 1	< 0.01	[N09]0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.24	13	0.01	0.05
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.48	[N09]23	[N09]0.02	[N09]0.15
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]2.2	[N09]160	[N09]0.21	[N09]1.2
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.22	[N09]10	[N09]0.02	[N09]0.08
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]4.4	[N09]210	[N09]1.2	[N09]3.2
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 1	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	112	123	92	107
18O2-PFHxS (surr.)	1	%	93	115	94	96
13C8-PFOS (surr.)	1	%	86	118	87	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	0.50
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	%	139	99	87	117
13C2-6:2 FTSA (surr.)	1	%	130	74	70	80
13C2-8:2 FTSA (surr.)	1	%	109	41	92	95
13C2-10:2 FTSA (surr.)	1	%	98	81	106	120
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	6.6	370	1.41	4.4
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	4.51	217.2	1.2	3.3
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	6.71	377.2	1.41	4.5
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	7.95	455.5	1.47	5.93
Sum of PFASs (n=30)*	0.1	ug/L	8.89	501.5	1.52	6.22

Client Sample ID			0937_QC204_231115	0937_QC205_231115	0937_QC207_231115	0937_QC208_231115
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-No0066896	M23-No0066897	M23-No0066899	M23-No0066900
Date Sampled			Nov 15, 2023	Nov 15, 2023	Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	0.06	0.09	0.12
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.03	0.47	0.17	0.05
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.03	0.43	0.51	0.11
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	[N09]0.05	[N09]0.08	[N09]0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	[N09]0.01	[N09]0.16	[N09]0.03
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	%	51	80	63	60
13C5-PFPeA (surr.)	1	%	83	96	96	93
13C5-PFHxA (surr.)	1	%	93	99	94	100
13C4-PFHpA (surr.)	1	%	117	122	94	116
13C8-PFOA (surr.)	1	%	125	120	80	105
13C5-PFNA (surr.)	1	%	125	125	118	107
13C6-PFDA (surr.)	1	%	120	117	89	93
13C2-PFUnDA (surr.)	1	%	86	79	83	70
13C2-PFDoDA (surr.)	1	%	64	59	55	54
13C2-PFTeDA (surr.)	1	%	100	51	42	70
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	%	86	96	98	87
D3-N-MeFOSA (surr.)	1	%	26	51	44	84
D5-N-EtFOSA (surr.)	1	%	23	41	32	60
D7-N-MeFOSE (surr.)	1	%	58	66	62	59
D9-N-EtFOSE (surr.)	1	%	56	64	55	64
D5-N-EtFOSAA (surr.)	1	%	80	76	88	66
D3-N-MeFOSAA (surr.)	1	%	90	85	90	67
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.02	[N09]0.03	[N09]0.40	[N09]0.10
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	[N09]0.02	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.01	0.01	0.16	0.05
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.01	[N09]0.02	[N09]0.40	[N09]0.09
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.15	[N09]0.19	[N09]3.0	[N09]0.66
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.01	< 0.01	[N09]0.19	[N09]0.08
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.60	[N09]0.42	[N09]6.4	[N09]1.6
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0937_QC204_231115	0937_QC205_231115	0937_QC207_231115	0937_QC208_231115
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-No0066896	M23-No0066897	M23-No0066899	M23-No0066900
Date Sampled			Nov 15, 2023	Nov 15, 2023	Nov 15, 2023	Nov 15, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	110	124	98	117
18O2-PFHxS (surr.)	1	%	109	113	87	102
13C8-PFOS (surr.)	1	%	101	99	72	86
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	1.6	0.10	< 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	%	195	139	122	113
13C2-6:2 FTSA (surr.)	1	%	195	123	106	110
13C2-8:2 FTSA (surr.)	1	%	125	102	93	87
13C2-10:2 FTSA (surr.)	1	%	91	82	74	74
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.75	0.61	9.4	2.26
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.6	0.43	6.56	1.63
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.75	0.62	9.56	2.29
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.83	3.26	10.91	2.68
Sum of PFASs (n=30)*	0.1	ug/L	0.86	3.29	11.68	2.9

Client Sample ID			0937_QC209_231115	0937_QC210_231116	0937_QC214_231116	0937_QC215_231116
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-No0066901	M23-No0066902	M23-No0066906	M23-No0066907
Date Sampled			Nov 15, 2023	Nov 16, 2023	Nov 16, 2023	Nov 16, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.17	0.79	0.10	0.09
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.11	0.64	0.20	0.13
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.49	2.0	0.64	0.14
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.04	[N09]0.15	[N09]0.09	[N09]0.06
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.06	[N09]0.58	[N09]0.15	[N09]0.06
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	[N09]0.02	< 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	%	69	56	67	57
13C5-PFPeA (surr.)	1	%	97	84	90	98
13C5-PFHxA (surr.)	1	%	93	132	89	101
13C4-PFHpA (surr.)	1	%	107	116	118	118
13C8-PFOA (surr.)	1	%	94	78	96	115
13C5-PFNA (surr.)	1	%	116	140	115	116
13C6-PFDA (surr.)	1	%	110	41	103	106

Client Sample ID			0937_QC209_231115	0937_QC210_231116	0937_QC214_231116	0937_QC215_231116
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-No0066901	M23-No0066902	M23-No0066906	M23-No0066907
Date Sampled			Nov 15, 2023	Nov 16, 2023	Nov 16, 2023	Nov 16, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFUnDA (surr.)	1	%	79	141	96	76
13C2-PFDoDA (surr.)	1	%	66	137	82	62
13C2-PFTeDA (surr.)	1	%	56	186	115	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	%	101	109	107	101
D3-N-MeFOSA (surr.)	1	%	54	46	135	75
D5-N-EtFOSA (surr.)	1	%	47	39	105	55
D7-N-MeFOSE (surr.)	1	%	83	101	89	70
D9-N-EtFOSE (surr.)	1	%	89	106	97	70
D5-N-EtFOSAA (surr.)	1	%	86	149	88	79
D3-N-MeFOSAA (surr.)	1	%	91	134	90	88
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.48	[N09]0.87	[N09]0.50	[N09]0.05
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 1	[N09]0.02	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.23	0.39	0.22	0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.52	[N09]1.0	[N09]0.64	[N09]0.04
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]1.8	[N09]15	[N09]3.3	[N09]0.29
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.03	< 1	[N09]0.22	[N09]0.02
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.17	[N09]200	[N09]4.8	[N09]0.72
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 1	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	103	91	105	123
18O2-PFHxS (surr.)	1	%	94	117	90	106
13C8-PFOS (surr.)	1	%	86	115	79	89
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	0.07	< 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	%	92	103	119	151
13C2-6:2 FTSA (surr.)	1	%	86	84	100	130
13C2-8:2 FTSA (surr.)	1	%	96	123	95	103
13C2-10:2 FTSA (surr.)	1	%	99	192	119	81

Client Sample ID			0937_QC209_231115	0937_QC210_231116	0937_QC214_231116	0937_QC215_231116
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-No0066901	M23-No0066902	M23-No0066906	M23-No0066907
Date Sampled			Nov 15, 2023	Nov 16, 2023	Nov 16, 2023	Nov 16, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	1.97	215	8.1	1.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.23	200.58	4.95	0.78
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	2.03	215.58	8.25	1.07
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	3.32	220.03	9.85	1.54
Sum of PFASs (n=30)*	0.1	ug/L	4.1	221.44	10.95	1.61

Client Sample ID			0937_QC217_231117	0937_QC505_231124
Sample Matrix			Water	Water
Eurofins Sample No.			M23-No0066909	M23-No0066910
Date Sampled			Nov 17, 2023	Nov 24, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.80	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.50	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.89	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.14	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.33	< 0.01
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 (PFTrDA)[N15]	0.01	ug/L	< 0.05	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.05	< 0.01
13C4-PFBA (surr.)	1	%	68	87
13C5-PFPeA (surr.)	1	%	72	113
13C5-PFHxA (surr.)	1	%	130	105
13C4-PFHpA (surr.)	1	%	80	107
13C8-PFOA (surr.)	1	%	91	99
13C5-PFNA (surr.)	1	%	28	115
13C6-PFDA (surr.)	1	%	24	109
13C2-PFUnDA (surr.)	1	%	40	83
13C2-PFDoDA (surr.)	1	%	69	67
13C2-PFTeDA (surr.)	1	%	195	63
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	[N09]0.08	< 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	%	80	95

Client Sample ID			0937_QC217_231117	0937_QC505_231124
Sample Matrix			Water	Water
Eurofins Sample No.			M23-No0066909	M23-No0066910
Date Sampled			Nov 17, 2023	Nov 24, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D3-N-MeFOSA (surr.)	1	%	171	112
D5-N-EtFOSA (surr.)	1	%	169	94
D7-N-MeFOSE (surr.)	1	%	107	96
D9-N-EtFOSE (surr.)	1	%	119	110
D5-N-EtFOSAA (surr.)	1	%	42	91
D3-N-MeFOSAA (surr.)	1	%	37	95
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.76	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	[N09]0.09	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.37	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.84	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]3.2	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.23	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]11	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	[N09]0.07	< 0.01
13C3-PFBS (surr.)	1	%	90	118
18O2-PFHxS (surr.)	1	%	124	116
13C8-PFOS (surr.)	1	%	131	110
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
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	0.07	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.05	< 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	%	193	92
13C2-6:2 FTSA (surr.)	1	%	139	73
13C2-8:2 FTSA (surr.)	1	%	134	95
13C2-10:2 FTSA (surr.)	1	%	64	105
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	14.2	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	11.33	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	14.53	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	17.69	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	19.37	< 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
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Nov 29, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Nov 29, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Nov 29, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Nov 29, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Nov 27, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	0937_QC200_231115	Nov 15, 2023		Water	M23-No0066892		X
2	0937_QC201_231115	Nov 15, 2023		Water	M23-No0066893		X
3	0937_QC202_231115	Nov 15, 2023		Water	M23-No0066894		X
4	0937_QC203_231115	Nov 15, 2023		Water	M23-No0066895		X
5	0937_QC204_231115	Nov 15, 2023		Water	M23-No0066896		X
6	0937_QC205_231115	Nov 15, 2023		Water	M23-No0066897		X
7	0937_QC206_231115	Nov 15, 2023		Soil	M23-No0066898	X	X
8	0937_QC207_231115	Nov 15, 2023		Water	M23-No0066899		X

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

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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
9	0937_QC208_231115	Nov 15, 2023		Water	M23-No0066900		X
10	0937_QC209_231115	Nov 15, 2023		Water	M23-No0066901		X
11	0937_QC210_231116	Nov 16, 2023		Water	M23-No0066902		X
12	0937_QC211_231116	Nov 16, 2023		Soil	M23-No0066903	X	X
13	0937_QC212_231116	Nov 16, 2023		Soil	M23-No0066904	X	X
14	0937_QC213_231116	Nov 16, 2023		Soil	M23-No0066905	X	X
15	0937_QC214_231116	Nov 16, 2023		Water	M23-No0066906		X
16	0937_QC215_231116	Nov 16, 2023		Water	M23-No0066907		X
17	0937_QC216_231116	Nov 16, 2023		Soil	M23-No0066908	X	X
18	0937_QC217_	Nov 17, 2023		Water	M23-No0066909		X

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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
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NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
18	0937_QC217_231117	Nov 17, 2023		Water	M23-No0066909		
19	0937_QC505_231124	Nov 24, 2023		Water	M23-No0066910		X
Test Counts						5	19

Internal Quality Control Review and Glossary

General

1. 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.
2. All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with blue colour indicates data provided by customers that may have an impact on the results.
10. 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	**ppm:** parts per million
µg/L: micrograms per litre	**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	**Colour:** Pt-Co Units	

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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide 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%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. 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.
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 are 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 (PFTrDA)	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 FTSAs)							
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)	%	72			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	67			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	69			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	66			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	68			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	77			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	67			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	76			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	71			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	53			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	71			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	72			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	79			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	85			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	72			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	74			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	69			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	73			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	71			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	69			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	73			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	72			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	68			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	72			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	69			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	62			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	75			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	72			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	70			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	67			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)	M23-No0066892	CP	%	71			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-No0066892	CP	%	71			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-No0066892	CP	%	74			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-No0066892	CP	%	71			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-No0066892	CP	%	65			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-No0066892	CP	%	82			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-No0066892	CP	%	75			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-No0066892	CP	%	73			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-No0066892	CP	%	73			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-No0072240	NCP	%	54			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-No0066892	CP	%	78			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-No0066892	CP	%	76			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-No0066892	CP	%	85			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-No0066892	CP	%	90			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-No0066892	CP	%	75			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-No0066892	CP	%	78			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-No0066892	CP	%	70			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-No0066892	CP	%	72			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-No0066892	CP	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-No0066892	CP	%	110			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-No0066892	CP	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-No0066892	CP	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-No0072240	NCP	%	73			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-No0066892	CP	%	80			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-No0072240	NCP	%	75			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-No0066892	CP	%	88			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-No0066892	CP	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-No0066892	CP	%	75			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-No0066892	CP	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-No0066892	CP	%	73			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	M23-No0066687	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-No0066687	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-No0066901	CP	ug/L	0.17	0.16	4.4	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-No0066901	CP	ug/L	0.11	0.11	2.5	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-No0066901	CP	ug/L	0.49	0.48	2.3	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-No0066901	CP	ug/L	0.04	0.04	1.8	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-No0066901	CP	ug/L	0.06	0.06	2.7	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-No0066901	CP	ug/L	0.48	0.47	2.2	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-No0066901	CP	ug/L	0.23	0.22	2.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-No0066901	CP	ug/L	0.52	0.50	4.2	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-No0066901	CP	ug/L	0.03	0.03	2.3	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-No0066901	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)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-No0066901	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-No0066901	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-No0066901	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
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:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-PFAS

[redacted]

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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Stantec Australia Pty Ltd
[redacted]
Melbourne
VIC 3000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: [redacted]

Report **1048259-S**
Project name RAAF Base East Sale
Project ID 304300114
Received Date Nov 27, 2023

Client Sample ID			0937_QC206_231115	0937_QC211_231116	0937_QC212_231116	0937_QC213_231116
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-No0066898	M23-No0066903	M23-No0066904	M23-No0066905
Date Sampled			Nov 15, 2023	Nov 16, 2023	Nov 16, 2023	Nov 16, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	30	18	20	20
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 (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	102	101	96	97
13C5-PFPeA (surr.)	1	%	125	121	113	115
13C5-PFHxA (surr.)	1	%	128	128	118	119
13C4-PFHpA (surr.)	1	%	113	114	108	112
13C8-PFOA (surr.)	1	%	116	114	108	109
13C5-PFNA (surr.)	1	%	132	125	122	118
13C6-PFDA (surr.)	1	%	132	135	126	127
13C2-PFUnDA (surr.)	1	%	122	117	104	109
13C2-PFDoDA (surr.)	1	%	122	124	119	114
13C2-PFTeDA (surr.)	1	%	126	129	118	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

Client Sample ID			0937_QC206_231115	0937_QC211_231116	0937_QC212_231116	0937_QC213_231116
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-No0066898	M23-No0066903	M23-No0066904	M23-No0066905
Date Sampled			Nov 15, 2023	Nov 16, 2023	Nov 16, 2023	Nov 16, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	100	98	95	96
D3-N-MeFOSA (surr.)	1	%	122	122	115	115
D5-N-EtFOSA (surr.)	1	%	124	120	115	115
D7-N-MeFOSE (surr.)	1	%	98	97	92	91
D9-N-EtFOSE (surr.)	1	%	95	91	88	87
D5-N-EtFOSAA (surr.)	1	%	84	107	99	104
D3-N-MeFOSAA (surr.)	1	%	76	105	101	100
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	< 5	< 5	< 5	5.8
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]16	[N09]68	[N09]76	[N09]88
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	117	117	114	113
18O2-PFHxS (surr.)	1	%	105	111	104	106
13C8-PFOS (surr.)	1	%	106	100	98	100
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
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	%	111	107	106	108
13C2-6:2 FTSA (surr.)	1	%	116	121	110	111
13C2-8:2 FTSA (surr.)	1	%	101	101	95	103
13C2-10:2 FTSA (surr.)	1	%	116	119	105	103
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	16	68	76	93.8
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	16	68	76	88
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	16	68	76	93.8
Sum of WA DWER PFAS (n=10)*	10	ug/kg	16	68	76	93.8
Sum of PFASs (n=30)*	50	ug/kg	< 50	68	76	93.8

Client Sample ID			0937_QC216_231116
Sample Matrix			Soil
Eurofins Sample No.			M23-No0066908
Date Sampled			Nov 16, 2023
Test/Reference	LOR	Unit	
Sample Properties			
% Moisture	1	%	24
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
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	%	100
13C5-PFPeA (surr.)	1	%	116
13C5-PFHxA (surr.)	1	%	126
13C4-PFHpA (surr.)	1	%	114
13C8-PFOA (surr.)	1	%	111
13C5-PFNA (surr.)	1	%	128
13C6-PFDA (surr.)	1	%	133
13C2-PFUnDA (surr.)	1	%	115
13C2-PFDoDA (surr.)	1	%	119
13C2-PFTeDA (surr.)	1	%	127
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	%	101
D3-N-MeFOSA (surr.)	1	%	123
D5-N-EtFOSA (surr.)	1	%	120
D7-N-MeFOSE (surr.)	1	%	96
D9-N-EtFOSE (surr.)	1	%	90
D5-N-EtFOSAA (surr.)	1	%	119
D3-N-MeFOSAA (surr.)	1	%	111
Perfluoroalkyl sulfonic acids (PFSAs)			
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	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5

Client Sample ID			0937_QC216_231116
Sample Matrix			Soil
Eurofins Sample No.			M23-No0066908
Date Sampled			Nov 16, 2023
Test/Reference	LOR	Unit	
Perfluoroalkyl sulfonic acids (PFSAs)			
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5
13C3-PFBS (surr.)	1	%	118
18O2-PFHxS (surr.)	1	%	114
13C8-PFOS (surr.)	1	%	110
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)			
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	%	110
13C2-6:2 FTSA (surr.)	1	%	109
13C2-8:2 FTSA (surr.)	1	%	115
13C2-10:2 FTSA (surr.)	1	%	108
PFASs Summations			
Sum (PFHxS + PFOS)*	5	ug/kg	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 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	Melbourne	Nov 27, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Nov 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Nov 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Nov 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Nov 30, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Nov 27, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	0937_QC200_231115	Nov 15, 2023		Water	M23-No0066892		X
2	0937_QC201_231115	Nov 15, 2023		Water	M23-No0066893		X
3	0937_QC202_231115	Nov 15, 2023		Water	M23-No0066894		X
4	0937_QC203_231115	Nov 15, 2023		Water	M23-No0066895		X
5	0937_QC204_231115	Nov 15, 2023		Water	M23-No0066896		X
6	0937_QC205_231115	Nov 15, 2023		Water	M23-No0066897		X
7	0937_QC206_231115	Nov 15, 2023		Soil	M23-No0066898	X	X
8	0937_QC207_231115	Nov 15, 2023		Water	M23-No0066899		X

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

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						x	x
9	0937_QC208_231115	Nov 15, 2023		Water	M23-No0066900		x
10	0937_QC209_231115	Nov 15, 2023		Water	M23-No0066901		x
11	0937_QC210_231116	Nov 16, 2023		Water	M23-No0066902		x
12	0937_QC211_231116	Nov 16, 2023		Soil	M23-No0066903	x	x
13	0937_QC212_231116	Nov 16, 2023		Soil	M23-No0066904	x	x
14	0937_QC213_231116	Nov 16, 2023		Soil	M23-No0066905	x	x
15	0937_QC214_231116	Nov 16, 2023		Water	M23-No0066906		x
16	0937_QC215_231116	Nov 16, 2023		Water	M23-No0066907		x
17	0937_QC216_231116	Nov 16, 2023		Soil	M23-No0066908	x	x
18	0937_QC217_	Nov 17, 2023		Water	M23-No0066909		x

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

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
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Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
18	0937_QC217_231117	Nov 17, 2023		Water	M23-No0066909		
19	0937_QC505_231124	Nov 24, 2023		Water	M23-No0066910		X
Test Counts						5	19

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples 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.
2. All soil/sediment/solid results are reported on a dry weight basis unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with blue colour indicates data provided by customers that may have an impact on the results.
10. 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	**ppm:** parts per million
µg/L: micrograms per litre	**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	**Colour:** Pt-Co Units	

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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide 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%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 5.4, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. 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.
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 are 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 (PFTrDA)	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 (PFSAs)							
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 FTSAs)							
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)	%	83			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	65			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	81			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	81			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	85			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	89			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	84			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	88			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	94			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	79			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	86			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	93			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	84			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	82			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	73			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	73			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	70			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	81			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	74			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	67			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	81			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	82			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	82			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	77			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)	M23-No0066908	CP	%	89			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-No0066908	CP	%	69			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-No0066908	CP	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-No0066908	CP	%	87			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-No0066908	CP	%	89			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-No0066908	CP	%	96			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-No0066908	CP	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-No0066908	CP	%	109			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-No0066908	CP	%	91			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-No0066908	CP	%	100			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-No0066908	CP	%	82			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M23-No0066908	CP	%	87			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-No0066908	CP	%	95			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-No0066908	CP	%	89			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-No0066908	CP	%	88			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-No0066908	CP	%	78			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-No0066908	CP	%	79			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-No0066908	CP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-No0066908	CP	%	73			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-No0066908	CP	%	89			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-No0066908	CP	%	78			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-No0066908	CP	%	71			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-No0066908	CP	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-No0066908	CP	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-No0066908	CP	%	80			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-No0066908	CP	%	85			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-No0066908	CP	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-No0066908	CP	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-No0066908	CP	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-No0066908	CP	%	90			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	M23-No0066904	CP	%	20	20	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-No0066905	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-No0066905	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-No0066905	CP	ug/kg	5.8	< 5	42	30%	Fail	Q15
Perfluoroheptanesulfonic acid (PFHpS)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-No0066905	CP	ug/kg	88	59	39	30%	Fail	Q15
Perfluorodecanesulfonic acid (PFDS)	M23-No0066905	CP	ug/kg	< 5	< 5	<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)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-No0066905	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-No0066905	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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).
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:

[redacted] Analytical Services Manager
[redacted] Senior Analyst-PFAS
[redacted]
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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Eurofins Environment Testing Australia Pty Ltd
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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	0937_QC200_231115	Nov 15, 2023		Water	M23-No0066892		X
2	0937_QC201_231115	Nov 15, 2023		Water	M23-No0066893		X
3	0937_QC202_231115	Nov 15, 2023		Water	M23-No0066894		X
4	0937_QC203_231115	Nov 15, 2023		Water	M23-No0066895		X
5	0937_QC204_231115	Nov 15, 2023		Water	M23-No0066896		X
6	0937_QC205_231115	Nov 15, 2023		Water	M23-No0066897		X
7	0937_QC206_231115	Nov 15, 2023		Soil	M23-No0066898	X	X
8	0937_QC207_231115	Nov 15, 2023		Water	M23-No0066899		X

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

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Eurofins Environment Testing NZ Ltd
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Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
9	0937_QC208_231115	Nov 15, 2023		Water	M23-No0066900		X
10	0937_QC209_231115	Nov 15, 2023		Water	M23-No0066901		X
11	0937_QC210_231116	Nov 16, 2023		Water	M23-No0066902		X
12	0937_QC211_231116	Nov 16, 2023		Soil	M23-No0066903	X	X
13	0937_QC212_231116	Nov 16, 2023		Soil	M23-No0066904	X	X
14	0937_QC213_231116	Nov 16, 2023		Soil	M23-No0066905	X	X
15	0937_QC214_231116	Nov 16, 2023		Water	M23-No0066906		X
16	0937_QC215_231116	Nov 16, 2023		Water	M23-No0066907		X
17	0937_QC216_231116	Nov 16, 2023		Soil	M23-No0066908	X	X
18	0937_QC217_	Nov 17, 2023		Water	M23-No0066909		X

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: Stantec Australia Pty Ltd (VIC)
Address: [redacted]
Melbourne
VIC 3000

Project Name: RAAF Base East Sale
Project ID: 304300114

Order No.:
Report #: 1048259
Phone:
Fax:

Received: Nov 27, 2023 5:29 AM
Due: Nov 30, 2023
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X
18	0937_QC217_231117	Nov 17, 2023		Water	M23-No0066909		
19	0937_QC505_231124	Nov 24, 2023		Water	M23-No0066910		X
Test Counts						5	19

Cardno

Chain of Custody

PM Name: [redacted]
Phone: [redacted]
Address: [redacted]
PM Email: [redacted]
Project Number: 304300114 Site: RAAF Base East Sale
Laboratory Eurofins Recipient: Contact no.:

Sample ID	Laboratory ID	Container	Sampling Date	Sampling Time	Sample Matrix: Water	Sample Matrix: Soil	Sample preservation: Ice	Analysis: EP231X PFAS standard	Analysis: Hold
0937_QC200_231115	1	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC201_231115	2	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC202_231115	3	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC203_231115	4	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC204_231115	5	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC205_231115	6	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC206_231115	7	1 x soil jar	15/11/2023			X	X	X	
0937_QC207_231115	8	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC208_231115	9	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC209_231115	10	2 x 20ml PFAS bottle	15/11/2023		X		X	X	
0937_QC210_231116	11	2 x 20ml PFAS bottle	16/11/2023		X		X	X	
0937_QC211_231116	12	1 x soil jar	16/11/2023			X	X	X	
0937_QC212_231116	13	1 x soil jar	16/11/2023			X	X	X	
0937_QC213_231116	14	1 x soil jar	16/11/2023			X	X	X	
0937_QC214_231116	15	2 x 20ml PFAS bottle	16/11/2023		X		X	X	

Sampler: I attest that the proper field sampling proceedures were used during the collection of these samples. **Sampler name:** (print and signature) [redacted] Date: 27/11/2023

Relinquished by (Sampler): (print and signature)	Date	Time	Received by (Courier/Lab): (print and signature)	Date	Time
[redacted]	27/11/2023				
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature)	Date	Time
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature)	Date	Time

Please supply results electronically in spreadsheet and ESDAT files.

Turn around time: (5 days)

Please circle

#1048259
27/11/23

DATE: 27/11/23
TIME: 5:29pm
COURIER: Ritis
TEMPERATURE 6-10°C
ATTEMP TO CHILL : YES NO
Nicole

Cardno

Chain of Custody

PM Name: [redacted]
Phone [redacted]
Address [redacted]
PM Email: [redacted]
Project Number: 304300114 Site: RAAF Base East Sale
Laboratory Eurofins Recipient: ____ Contact no.:

Sample ID	Laboratory ID	Container	Sampling Date	Sampling Time	Sample Matrix: Water	Sample Matrix: Soil	Sample preservation: Ice	Analysis: EP231X PFAS standard	Analysis: Hold
0937_QC215_231116	16	2 x 20ml PFAS bottle	16/11/2023		X		X	X	
0937_QC216_231116	17	1 x soil jar	16/11/2023			X	X	X	
0937_QC217_231117	18	2 x 20ml PFAS bottle	17/11/2023		X		X	X	
0937_QC505_231124	19	2 x 20ml PFAS bottle	24/11/2023		X		X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	
							X	X	

Sampler: I attest that the proper field sampling proceedures were used during the collection of these samples. Sampler name: (print and signature) [redacted] Date: 27/11/2023

Relinquished by (Sampler): (print and signature) [redacted]	Date 27/11/2023	Time	Received by (Courier/Lab): (print and signature)	Date	Time
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature)	Date	Time
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature)	Date	Time

Please supply results electronically in spreadsheet and ESDAT files.

Turn around time: (5 days) Please circle

#1048259

27/11/23

APPENDIX

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FIELD RECORDS & CALIBRATION CERTIFICATES

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Location	Event No.	Property	Easting	Northing	Monitoring Date	Bore Depth (m)[1]	Top of casing (mAHD)	SWL (bTOC)	SWL (mAHD)	Top of Hydrasleeve (bTOC)	Other Observations on Bore/Site[2,3]	Temp (C°)	DO (mg/L)	EC (us/Cm)	TDS	pH	Eh (mV)	Aquifer	Sampling Method	Frequency
MW008	E13	Off-site	511446.21	5780968.67	14/11/23	10.251	4.580	2.922	1.658	9.403	Cloudy, low turbidity	15.4	1.49	3857	2507.05	6.97	-194.8	Intermediate	Hydrasleeve	Annual
MW009	E13	Off-site	511446.77	5780970.11	14/11/23	13.131	4.830	3.273	1.557	12.237	Cloudy, low turbidity	15.7	0.87	2621	1703.65	6.92	-145	Haunted Hills	Hydrasleeve	Annual
MW010	E13	Off-site	511002.03	5783849.03	14/11/23	13.652	6.200	0.780	5.420	12.584	Clear, slightly cloudy at bottom of sleeve, low turbidity	18.6	1.22	7674	4988.1	6.66	-37.8	Intermediate	Hydrasleeve	Annual
MW014	E13	Off-site	513147.50	5781319.00	14/11/23	188.000	4.980	2.574	2.406	15.703	Clear, no turbidity	16.1	0.93	728	473.2	6.64	-229	Boisedale (artesian)	Hydrasleeve	Annual
MW015	E13	Off-site	515852.16	5782566.01	14/11/23	5.500	NM	0.565	-	4.747	Clear, no turbidity	16.1	1.4	10062	6540.3	7.13	-298.6	Shallow	Hydrasleeve	Annual
MW016	E13	Off-site	515845.81	5782565.37	14/11/23	15.000	NM	1.323	-	13.834	Cloudy with suspended black particles, strong sulfuric odour, medium turbidity	17.2	0.97	7060	4589	7.11	-291.3	Intermediate	Hydrasleeve	Annual
MW201	E13	On-site	512779.63	5781903.29	13/11/23	5.500	5.100	3.346	1.754	4.876	Cloudy, light brown, low turbidity. Unable to close well cap due to stand pipe condition.	15.1	0.6	5188	3372.2	7.48	-128.9	Shallow	Hydrasleeve	Annual
MW202	E13	On-site	512770.18	5781868.28	13/11/23	5.168	4.790	3.017	1.773	4.000	Pale brown, high turbdity	15.6	1.76	3790	2463.5	7.09	107	Shallow	Hydrasleeve	Annual
MW203	E13	On-site	512793.21	5781879.87	13/11/23	5.478	4.970	3.184	1.786	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW302	E13	Off-site	514173.29	5781409.25	17/11/23	7.300	NM	4.553	-	7.253	Parameter collection equipment malfunction. No well cap due to irrigation pump feeding directly into top of casing.	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW304	E13	Off-site	513211.03	5781757.69	14/11/23	4.845	3.580	1.993	1.587	NM	Hydrasleeves previously deployed have been tampered with. HS redeployed and sampled at later date	15.7	1.58	1257	817.05	7.59	-270	Shallow	Hydrasleeve	Annual
MW306	E13	On-site	510953.65	5783307.78	13/11/23	5.366	7.400	1.624	5.776	4.230	Cloudy, medium turbidity, no odour	14.5	1.39	2799	1819.35	7.05	-15.3	Shallow	Hydrasleeve	Annual
MW310	E13	Off-site	513211.56	5781759.69	14/11/23	8.226	3.460	1.861	1.599	NM	Hydrasleeves previously deployed have been tampered with. HS redeployed and sampled at later date	14.6	0.49	5088	3307.2	7.1	-279.2	Intermediate	Hydrasleeve	Annual
MW312	E13	Off-site	513212.35	5781761.69	14/11/23	24.526	3.490	1.793	1.697	23.900	Clear, no turbidity	15.8	1.03	1473	957.45	6.2	-1.1	Haunted Hills	Hydrasleeve	Annual
MW315	E13	On-site	510935.79	5783187.79	13/11/23	5.900	NM	1.892	-	4.650	Clear, low turbidity	15.2	1.33	9713	6984.25	7.14	121.6	Shallow	Hydrasleeve	Annual
MW316	E13	Off-site	513124.91	5781069.99	14/11/23	5.500	4.250	3.182	1.068	4.400	Clear, low turbidity	16.8	1.3	2947	1915.55	6.45	29.2	Shallow	HandBailing	Annual
MW318	E13	Off-site	513127.04	5781069.72	14/11/23	9.940	4.230	3.052	1.178	8.810	Clear, no turbidity	16.5	0.76	2425	1576.25	6.82	-12.8	Intermediate	Hydrasleeve	Annual
MW319	E13	Off-site	-	-	21/11/23	-	NM	-	-	NM	Clear, no turbidity	18.3	4.44	2270	1475.5	6.58	-143	Shallow	Other	Annual
MW320	E13	Off-site	-	-	16/11/23	-	-	-	-	NM	Bore dry	-	-	-	-	-	-	Shallow	-	Annual
MW321	E13	Off-site	513128.94	5781069.49	14/11/23	22.320	3.860	2.708	1.152	21.430	Clear, no turbidity	18.7	1.46	2601	1690.65	6.31	-50.6	Haunted Hills	Hydrasleeve	Annual
MW323	E13	On-site	512779.56	5781904.77	13/11/23	7.313	5.010	3.256	1.754	6.121	Clear, no turbidity, no odour	15.7	3.72	4655	3025.75	7.62	-73.3	Intermediate	Hydrasleeve	Annual
MW324	E13	On-site	512769.45	5781869.34	13/11/23	8.580	4.940	3.183	1.757	7.700	Clear, no turbidity	15.6	1.69	5185	3370.25	7.24	108.1	Intermediate	Hydrasleeve	Annual
MW325	E13	On-site	511562.23	5782027.05	13/11/23	5.120	5.920	3.602	2.318	NM	No hydrasleeve, bailed dry and sampled when recovered. Light brown, low turbidity	17	3.52	946	614.9	7.12	80.7	Shallow	HandBailing	Annual
MW326	E13	On-site	511181.13	5783132.90	13/11/23	3.570	6.610	1.095	5.515	2.460	Clear, low turbidity. Gatic lid does not close, screw holes rethreaded. Obvious infiltration of rainwater into gatic.	17.1	1.49	3131	2035.15	7.47	82.1	Shallow	Hydrasleeve	Annual
MW603	E13	On-site	511024.22	5782242.35	14/11/23	6.570	6.510	2.363	4.147	5.460	Clear, low turbidity, no odour	16.6	1.56	9670	6285.5	6.89	-86.2	Shallow	Hydrasleeve	Annual
MW607	E13	On-site	511109.61	5783399.84	13/11/23	4.702	6.660	1.331	5.329	4.120	Light brown, medium turbidity, no odour. Gatic lid does not close, bollard on top of gatic.	18.3	1.18	610	396.5	7	-50.9	Shallow	Hydrasleeve	Annual
MW609	E13	On-site	511057.22	5783321.93	13/11/23	5.204	6.480	0.830	5.650	4.790	Clear, no turbidity, minimal sediment in bottom of sleeve. Gatic lid does not close, bollard on top of gatic.	18	1.16	2454	1595.1	7.13	-62.1	Shallow	Hydrasleeve	Annual
MW610	E13	On-site	511171.33	5783170.65	13/11/23	-	-	-	-	-	Well cap unable to be opened, HS not replaced or sampled.	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW612	E13	On-site	511303.62	5783135.87	13/11/23	6.400	6.490	1.331	5.159	5.450	Clear, low turbidity	18.8	1.87	4058	2637.7	7.41	100.8	Shallow	Hydrasleeve	Annual
MW615	E13	On-site	512486.20	5782074.52	13/01/23	6.418	5.740	3.789	1.951	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW616	E13	On-site	512527.20	5782002.05	13/11/23	6.430	5.890	4.217	1.673	5.280	Clear, low turbidity, suspended solids at bottom of sleeve	15	2.09	564	366.6	7.08	120.4	Shallow	Hydrasleeve	Annual
MW617	E13	On-site	512754.09	5781809.30	14/11/23	5.943	4.980	3.168	1.812	5.627	Brown, high turbidity	16	3.63	4464	2901.6	7.02	117.3	Shallow	Hydrasleeve	Annual
MW618	E13	On-site	512883.53	5781769.43	13/11/23	5.660	4.770	3.081	1.689	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW619	E13	On-site	513002.26	5781764.32	14/11/23	6.023	4.390	2.724	1.666	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW620	E13	On-site	512927.08	5782024.34	13/11/23	6.024	5.430	3.635	1.795	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW622	E13	On-site	512962.96	5781904.83	13/11/23	4.990	4.700	2.942	1.758	3.850	Cloudy, low turbidity	15.6	1.4	4280	2782	6.99	-35.3	Shallow	Hydrasleeve	Annual
MW623	E13	On-site	513066.42	5781875.50	13/11/23	4.910	4.890	3.152	1.738	3.800	Light brown, medium turbidity, no odour	15	0.7	3032	1970.8	6.8	-92.7	Shallow	Hydrasleeve	Annual
MW624	E13	On-site	513052.11	5781921.56	13/11/23	4.640	4.850	3.120	1.730	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	HandBailing	Annual
MW625	E13	On-site	513123.30	5781863.96	13/11/23	5.598	4.910	3.215	1.695	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW626	E13	On-site	513189.85	5781883.44	13/11/23	5.510	4.700	3.053	1.647	4.370	Brown, high turbidity, no odour	15.2	1.17	4654	3025.1	6.76	74	Shallow	Hydrasleeve	Annual
MW627	E13	On-site	513028.72	5781816.27	13/11/23	5.030	4.540	2.856	1.684	3.960	Brown, high turbidity	16	0.52	5767	3748.55	6.68	121.3	Shallow	Hydrasleeve	Annual
MW628	E13	On-site	513149.47	5781738.44	16/11/23	4.236	3.500	1.919	1.581	NM	Bailed dry for sample and parameters, cloudy light brown, low turbidity	15.4	2.23	6868	4464.2	7.05	-86.7	Shallow	HandBailing	Annual
MW629	E13	On-site	513088.04	5781689.74	13/11/23	6.000	3.280	1.664	1.616	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual

Location	Event No.	Property	Easting	Northing	Monitoring Date	Bore Depth (m)[1]	Top of casing (mAHD)	SWL (bTOC)	SWL (mAHD)	Top of Hydrasleeve (bTOC)	Other Observations on Bore/Site[2,3]	Temp (C°)	DO (mg/L)	EC (us/Cm)	TDS	pH	Eh (mV)	Aquifer	Sampling Method	Frequency
MW636	E13	On-site	511566.35	5781821.48	13/11/23	6.450	5.720	3.668	2.052	5.341	Clear, low turbidity	16.3	3.61	2796	1817.4	7.51	93.1	Shallow	Hydrasleeve	Annual
MW701	E13	On-site	513061.37	5781149.45	14/11/23	10.130	5.480	4.303	1.177	9.010	HS lost down well, replaced with bailer, slightly cloudy, low turbidity, no odour	16.3	1.07	3879	2521.35	6.2	-30.6	Intermediate	Bailer	Annual
MW702	E13	On-site	513167.76	5781688.35	14/11/23	5.201	4.180	2.536	1.644	4.050	Brown, medium turbidity	16.5	1.02	5762	3745.3	7.29	90.1	Shallow	Hydrasleeve	Annual
MW703	E13	On-site	512733.70	5781887.70	13/11/23	6.254	6.270	4.506	1.764	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW704	E13	On-site	512833.23	5781892.88	13/11/23	10.640	5.930	4.101	1.829	8.800	Previous hydrasleeve lost, no odour, minimal sediment in sleeve, clear, no turbidity	15.4	0.77	3542	2302.3	7.45	-74.1	Intermediate	Hydrasleeve	Annual
MW705	E13	On-site	512830.16	5781894.72	13/11/23	15.317	5.680	4.033	1.647	14.503	Clear, no turbidity, minimal sediment in bottom of sleeve	15.7	0.81	3344	2173.6	6.66	-27.1	Haunted Hills	Hydrasleeve	Annual
MW707	E13	On-site	512837.57	5781171.30	14/11/23	5.830	5.590	4.359	1.231	5.000	Well bailed dry, no odour, brown, high turbidity	16	3.23	3060	1989	7.27	-68.1	Shallow	HandBailing	Annual
MW708	E13	On-site	513109.66	5781434.23	14/11/23	5.875	6.150	4.830	1.320	5.000	Well bailed dry, brown, medium turbidity	15.5	6.91	817	531.05	7	-33.5	Shallow	HandBailing	Annual
MW709	E13	On-site	512808.42	5781757.31	14/11/23	4.970	4.633	2.896	1.737	3.750	Cloudy, low turbidity, no odour. Previously damaged due to vehicle incident. Well monument supported with stakes.	15.1	2.11	5710	3711.5	7.41	-62.6	Shallow	Hydrasleeve	Annual
MW711	E13	On-site	513267.69	5781773.97	13/11/23	5.600	5.380	2.887	2.493	4.460	Slightly cloudy, no turbidity, sediment in bottom of sleeve, no odour	17	1.66	4258	2767.7	7.43	-207.7	Shallow	Hydrasleeve	Annual
MW712	E13	On-site	512409.41	5781234.49	14/11/23	5.660	5.080	3.491	1.589	4.730	Bailed dry and sampled, clear, no turbidity	17.9	5.7	15599	10139.35	7.33	113.2	Shallow	HandBailing	Annual
MW713	E13	On-site	512127.69	5781809.98	14/11/23	5.800	4.580	2.827	1.753	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW714	E13	On-site	512000.53	5781280.42	14/11/23	7.740	5.080	-	-	5.850	Clear, no turbidity, malfunction of gauging data	16.4	1.26	2597	1688.05	6.84	-20.3	Shallow	Hydrasleeve	Annual
MW715	E13	On-site	514206.25	5781628.05	13/11/23	6.710	3.320	1.918	1.402	5.880	Clear, no turbidity, no odour	16.3	0.99	17575	11423.75	6.5	-146	Shallow	Hydrasleeve	Annual
MW716	E13	On-site	514291.93	5782261.45	13/11/23	4.670	3.350	1.768	1.582	3.300	Cloudy, low turbidity, no odour, sediment in bottom of sleeve	17.2	0.89	6406	4163.9	7.33	-232.3	Shallow	Hydrasleeve	Annual
MW718	E13	On-site	513923.17	5782782.41	14/11/23	4.608	3.740	1.860	1.880	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW719	E13	On-site	512459.23	5783093.51	14/11/23	4.465	5.220	2.149	3.071	3.310	Cloudy and brown, low turbidity, no odour, suspended sediment in sleeve	15	0.85	3508	2280.2	7.02	174.1	Shallow	Hydrasleeve	Annual
MW720	E13	On-site	512232.85	5782945.97	16/11/23	4.950	3.962	1.904	2.058	3.890	Cloudy, medium turbidity	16	2.04	3896	2532.4	6.83	94.4	Shallow	Hydrasleeve	Annual
MW722	E13	On-site	511287.41	5782657.25	13/11/23	6.000	6.052	2.880	3.172	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW724	E13	On-site	510914.18	5782984.85	13/11/23	4.850	6.400	1.203	5.197	3.850	Clear, low turbidity	15.6	1.2	13565	8817.25	6.96	136.8	Shallow	Hydrasleeve	Annual
MW725	E13	On-site	511106.89	5782987.74	13/11/23	5.860	7.020	1.496	5.524	4.800	Clear, medium turbidity	17.5	0.91	3407	2214.55	6.99	100.3	Shallow	Hydrasleeve	Annual
MW726	E13	On-site	511157.71	5783232.41	13/11/23	4.410	6.760	1.145	5.615	3.420	Gatic filled with water, cloudy to brown, low turbidity, sediment in bottom of sleeve	18.3	1.58	2412	1567.8	7.24	-41.7	Shallow	Hydrasleeve	Annual
MW728	E13	On-site	511164.08	5782955.08	13/11/23	5.900	7.060	1.493	5.567	NM	Removed from SAQP, gauge only	-	-	-	-	-	-	Shallow	Hydrasleeve	Annual
MW729	E13	On-site	511823.51	5782660.90	16/11/23	13.500	5.910	3.081	2.829	12.480	Pale yellow, medium turbidity, high volume of suspended solids at base of sleeve	17	1.32	1284	834.6	6.33	107.7	Haunted Hills	Hydrasleeve	Annual
MW730	E13	On-site	513354.14	5783548.32	16/11/23	4.870	3.910	1.112	2.798	3.820	Clear, low turbidity, minimal sediment at base of sleeve. Location marker removed, difficult to locate.	14.6	0.99	1800	1170	7.37	-108	Shallow	Hydrasleeve	Annual
MW733	E13	On-site	510924.92	5783445.01	23/11/32	3.530	6.360	0.779	5.581	2.390	Cloudy, low turbidity, no odour. Location marker removed, potentially buried.	19.6	1.95	5149	3346.85	6.94	100.1	Shallow	Hydrasleeve	Annual
MW734	E13	On-site	510888.80	5783295.18	13/11/23	4.680	7.290	1.452	5.838	2.740	Cloudy and brown, medium turbidity, no odour, sediment in bottom of sleeve	14.7	1.9	710	461.5	7.13	-47	Shallow	Hydrasleeve	Annual
MW735	E13	On-site	513057.98	5781149.90	14/11/23	5.570	5.430	4.247	1.183	4.500	Clear, no turbidity, minimal sediment in bottom of sleeve, no dour	16.5	3.16	4368	2839.2	6.68	-26.4	Shallow	Hydrasleeve	Annual
MW737	E13	On-site	511152.05	5783442.37	13/11/23	16.040	6.590	1.324	5.266	15.900	Clear, low turbidity, slight hydrogen sulfide odour	16.3	1.8	1220	793	7.35	-26.4	Haunted Hills	Hydrasleeve	Annual
MW738	E13	On-site	511824.18	5782662.41	16/11/23	4.770	5.860	1.950	3.910	3.650	Slightly cloudy, low turbidity, no odour	16.4	1.34	3578	2325.7	7.15	-57.1	Shallow	Hydrasleeve	Annual
MW739	E13	On-site	513167.49	5781682.74	14/11/23	8.417	4.490	2.602	1.888	7.574	Clear, no turbidity	16.2	1.86	6323	4109.95	7.26	81.3	Intermediate	Hydrasleeve	Annual
MW740	E13	On-site	513105.77	5781435.26	14/11/23	10.270	6.410	5.100	1.310	9.500	Clear, slightly cloudy at bottom of sleeve, no odour	15.2	1.9	2704	1757.6	6.55	-9.3	Intermediate	Hydrasleeve	Annual
MW741	E13	On-site	512409.88	5781237.13	14/11/23	11.040	5.200	4.544	0.656	8.661	Clear, no turbidity	18.1	1.82	11648	7571.2	6.57	106.4	Intermediate	Hydrasleeve	Annual
POT027	E13	Off-site	514450.48	5782308.48	23/11/23	-	-	-	-	-	Clear, low turbidity	21.2	2.46	631	121.3	6.12	30.3	Point of Use	Other	Annual
POT034	E13	Off-site	-	-	16/11/23	-	-	-	-	-	Sampled from tap, clear, no turbidity	15.9	0.59	1623	1054.95	6.61	-84.3	Point of Use	Other	Annual
POT042	E13	Off-site	-	-	21/11/23	17.860	NM	0.703	-	17.000	Grey, high turbidity, high volume of black suspended solids, strong sulfuric odour. No well cap, casing damaged, subject to surface and rainwater infiltration.	16.4	0.43	1541	1001.65	6.72	-147.6	Point of Use	Hydrasleeve	Annual
POT050	E13	Off-site	-	-	16/11/23	-	NM	-	-	NM	HS well not located, sample taken from irrigation pump from deeper aquifer, clear, no turbidity	17.9	3.62	696	452.4	6.34	-29.8	Point of Use	Other	Annual
POT051	E13	Off-site	-	-	20/11/23	14.600	NM	0.615	-	14.000	Yellow, low turbidity, strong organic odour, minimal sediment at bottom of sleeve. No well cap, casing damaged, subject to surface and rainwater infiltration.	15.8	0.83	317.3	206.245	6.44	-283.2	Point of Use	Hydrasleeve	Annual

Location ID	Event No.	Property	Easting	Northing	Monitoring Date	Survey Point (mAHD)	Depth to Water from Survey Point (m)	SWL (mAHD)	Sample Depth (m)	Flow Rate (m/s)	Water Colour	Turbidity	Other Obvservations	Temp (Co)	DO (mg/L)	EC (us/Cm)	TDS (mg/L)	pH	Eh (mV)
SW001	E13	Off-Site	512248.33	5780710.45	21/11/23	-	-		0.3	Low	Cloudy	Low	-	19.5	5.52	454.4	295.36	7.89	-199
SW002	E13	Off-Site	512992.27	5780415.61	21/11/23	-	-	-	0.1	Stagnant	Brown	Medium	Overgrowth of reeds in area	20.4	5.41	518	336.70	7.15	-170.2
SW004	E13	Off-Site	512981.90	5780346.38	21/11/23	-	-	-	0.1	Stagnant	Cloudy	Medium	Overgrowth of reeds in area, biofilm along water edge	18.8	4.46	672	436.80	6.98	30.3
SW011	E13	Off-Site	513700.56	5779345.11	22/11/23	-	-	-	0.2	Stagnant	Cloudy	Low	Overgrowth of reeds in area	25.1	5.52	4028	2618.20	7.86	115.7
SW012	E13	Off-Site	513239.66	5778657.56	22/11/23	-	-	-	0.3	Stagnant	Clear	No	-	20.5	5.09	232.1	150.87	7.58	100.8
SW014	E13	Off-Site	513162.07	5778770.91	22/11/23	-	-	-	0.2	Stagnant	Clear	Low	Sampled within surface water drain, biofilm on surface	23	5.14	474.3	308.30	7.53	113.7
SW015	E13	Off-Site	511590.29	5779339.83	22/11/23	-	-	-	0.2	Low	Cloudy	Medium	-	23.5	5.11	472	306.80	7.59	128.2
SW016	E13	Off-Site	512837.64	5779485.31	22/11/23	-	-	-	0.2	Stagnant	Clear	Low	-	23.9	5.46	454.1	295.17	7.47	108.5
SW019	E13	Off-Site	518651.55	5780487.87	21/11/23	-	-	-	0.3	Stagnant	Brown	Medium	-	20.4	3.95	390.7	253.96	6.78	81.5
SW030	E13	Off-Site	514516.63	5780010.56	21/11/23	Unable to sample due to inaccessibility issues													
SW031	E13	Off-Site	-	-	23/11/23	-	-	-	0/01/1900	Low	Cloudy	Medium	-	20.3	5.28	446.8	290.42	6.04	133.4
SW032	E13	Off-Site	-	-	23/11/23	-	-	-	0.2	Stagnant	Cloudy	Low	-	21.2	4.8	679	441.35	6.05	129.4
SW033	E13	Off-Site	513069.86	5780804.13	21/11/23	-	-	-	0.1	Stagnant	Cloudy	Medium	Overgrowth of reeds in area, slight organic odour, microorganisms present	15.8	1.78	3022	1964.30	7.16	-286.1
SW034	E13	Off-Site	511751.29	5780440.49	21/11/23	-	-	-	0.15	Stagnant	cloudy	Low	-	24.3	6	471.8	306.67	7.83	-209.5
SW035	E13	Off-Site	512256.67	5780692.28	21/11/23	-	-	-	0.3	Stagnant	Brown	Medium	-	19.6	5.75	363.5	236.28	7.02	78.2
SW041	E13	Off-Site	512590.57	5780654.11	21/11/23	-	-	-	0.15	Stagnant	Brown	Medium	Algae and slight sheen present	20.2	4.83	1367	888.55	5.95	18.4
SW049	E13	Off-Site	511002.45	5783872.55	23/11/23	-	-	-	0.1	Low	Cloudy	Medium	Overgrowth of vegetation in area, slight anaerobic odour, suspended black particles	20.8	0.79	62.5	40.63	6.99	-61.1
SW052	E13	Off-Site	513528.35	5780380.31	21/11/23	-	-	-	0.15	Stagnant	Cloudy	Low	Floating vegetation matter, biofilm near waters edge	19.6	6.36	464.5	301.93	7.05	-186.7
SW077	E13	Off-Site	506789.51	5780804.99	22/11/23	-	-	-	0.3	Low	Clear	Low	-	25.7	5.06	731	475.15	7.99	132.1
SW080	E13	Off-Site	509107.89	5777933.01	22/11/23	-	-	-	0.3	Low	Cloudy	Low	Foaming and slight sheen present	19	5.22	210.8	137.02	8.04	97
SW082	E13	Off-Site	509637.63	5777965.97	22/11/23	-	-	-	0.15	Low	Cloudy	Low	-	18.8	5.58	458.8	298.22	7.68	116.5
SW088	E13	Off-Site	516776.05	5780921.84	21/11/23	-	-	-	0.1	Stagnant	Cloudy	Low	-	20.7	6.19	605	393.25	7.72	-267.4
SW089	E13	Off-Site	516503.46	5779840.98	21/11/23	-	-	-	0.15	Stagnant	Clear	Low	Microorganisms present	19.9	4.7	490.5	318.83	6.61	-215.3
SW092	E13	Off-Site	518702.45	5780052.64	21/11/23	-	-	-	0.15	Stagnant	Clear	No	Overgrowth of reeds in area	20.7	5.24	501	325.65	7	-257.4
SW093	E13	Off-Site	518754.32	5779840.39	21/11/23	-	-	-	0.2	Stagnant	Clear	Low	-	19.7	5.11	305.8	198.77	7.08	-272.6
SW201	E13	On-Site	510966.97	5783793.22	22/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW203	E13	On-Site	511068.89	5783296.33	16/11/23	-	-	-	0.05	Stagnant	Brown	Low	Algae present, minimal water at location.	16.3	*	402.1	261.37	8.81	47.1
SW206	E13	On-Site	511192.64	5783184.22	16/11/23	-	-	-	-	-	-	-	Access blocked by placement of large skip bin	-	-	-	-	-	-
SW208	E13	On-Site	511723.11	5783002.23	16/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW209	E13	On-Site	512448.20	5783072.04	17/11/23	-	-	-	0.1	Stagnant	Grey, cloud	Low	Leaf litter and grass cuttings on water surface, slight PFAS sheen present, slight organic odour	14.9	0	741	481.65	7.06	-159.9
SW216	E13	On-Site	512026.00	5782645.43	16/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW217	E13	On-Site	511877.09	5782558.63	17/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW222	E13	On-Site	511684.30	5782543.22	16/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW223	E13	On-Site	511655.58	5782363.80	16/11/23	-	-	-	0.1	Stagnant	Clear	Medium	Microorganisms and algae present, organic decomposition odour	21.1	*	193.6	125.84	9.74	32.8
SW224	E13	On-Site	511024.96	5782271.78	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW226	E13	On-Site	511860.00	5782088.75	17/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW227	E13	On-Site	511553.78	5782168.42	16/11/23	-	-	-	0.2	Stagnant	ghtly cloud	Low	-	19.4	4.66	452	293.80	7.74	-60.1
SW228	E13	On-Site	511836.86	5781940.81	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW230	E13	On-Site	511900.23	5781561.62	15/11/23	-	-	-	0.15	Stagnant	Clear	Low	Overgrown reeds, microorganisms present, slight organic odour	21.7	2.98	172.9	112.39	6.47	-17.2
SW231	E13	On-Site	513984.49	5783450.58	20/11/23	-	-	-	0.1	Stagnant	uspended	Low	Foaming, microorganisms, algae and sheen present on waters surface	18.9	2.79	12345	8024.25	7.46	-178
SW232	E13	On-Site	513805.30	5783125.57	16/11/23	-	-	-	-	-	-	-	Removed from SAQP	-	-	-	-	-	-
SW233	E13	On-Site	513481.73	5783054.00	16/11/23	-	-	-	0.1	Stagnant	Brown	Medium	Slight sheen present	14.6	1.68	4967	3228.55	6.95	-58.7
SW235	E13	On-Site	514359.93	5782800.29	16/11/23	-	-	-	-	-	-	-	Removed from SAQP for sampling. Water level/depth measured at 0.09m.	-	-	-	-	-	-
SW237	E13	On-Site	513744.14	5782898.37	16/11/23	-	-	-	-	-	-	-	Removed from SAQP for sampling. Water level measured at 0.702 m from top of water level marker.	-	-	-	-	-	-
SW238	E13	On-Site	513338.67	5782709.14	20/11/23	-	-	-	0.1	Stagnant	Brown	High	-	18.4	1.14	4860	3159.00	6.82	24.3
SW239	E13	On-Site	512981.03	5782718.99	17/11/23	-	-	-	0.15	Stagnant	Brown	High	-	18.7	0.27	3105	2018.25	7.14	-99.3
SW242	E13	On-Site	512428.43	5781951.87	16/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW246	E13	On-Site	512004.75	5781525.60	15/11/23	-	-	-	0.1	Stagnant	Brown	Medium	Significant amount of minute root matter and organic material throughout water, algae present	27.2	*	377.4	245.31	9.69	40.6
SW251	E13	On-Site	513092.25	5781098.45	15/11/23	-	-	-	0.1	Stagnant	clear	Low	Overgrowth of reeds in area, biofilm on waters surface, slight sheen present. Water level/depth measured at 0.31 m above bottom.	20	2.23	2501	1625.65	7.27	-52
SW252	E13	On-Site	512619.53	5781536.02	15/11/32	-	-	-	0.1	Stagnant	yellow	High	Slight manure/organic odour	24.3	3.84	342.5	222.63	6.65	-21.4
SW256	E13	On-Site	513308.87	5782511.39	23/11/23	-	-	-	0.2	Stagnant	Brown	High	Algae present	23.2	0.3	4454	2895.10	7.21	-73.2
SW258	E13	On-Site	513180.47	5781676.05	16/11/23	-	-	-	0.1	Stagnant	brown	High	Slight organic odour. Water level/depth measured at 0.12 m from bottom	16.7	1.4	2961	1924.65	7.2	-63.6
SW260	E13	On-Site	513117.34	5781262.60	16/11/23	-	-	-	0.15	Stagnant	cloudy	Low	Potential PFAS film or biofilm on waters surface. Water level/depth measured at 0.26 m from bottom.	15.2	0.7	2640	1716.00	7.16	-93.4
SW277	E13	Off-Site	515317.83	5779357.56	21/11/23	-	-	-	0.2	Stagnant	cloudy	Low	-	22.1	6.65	455.6	296.14	7.15	-238
SW351	E13	On-Site	-	-	15/11/23	-	-	-	0.1	Stagnant	ghtly cloud	Low	Foaming and algae present	24.7	8.78	166.5	108.23	8.68	-51.2
SW353	E13	On-Site	511723.00	5782690.00	16/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-
SW366	E13	On-Site	-	-	16/11/23	-	-	-	-	-	-	-	Location Dry	-	-	-	-	-	-

[1] Value is considered to be anomalous
[2] Flow was measured qualitatively except for select locations where a flow rate was measured
[3] NM - not measured
* Data point removed as it is potentially erroneous

Location ID	Event No.	Property	Easting	Northing	Monitoring Date	Other Observations
SD001	E13	Off-Site	512248.33	5780710.45	21/11/2023	Clayey sand, grey red, low plasticity, moist, with fine gravels, no odour, no organics, no staining
SD011	E13	Off-Site	513700.56	5779345.11	22/11/2023	Sediment: Silty sandy CLAY, dark brown, medium grained, low to moderate plasticity, NOM, NO, NS, slight to minimal orange mottling, moist
SD014	E13	Off-Site	513162.07	5778770.91	22/11/2023	Sediment: Clayey SAND, dark brown, fine to medium grained, low to moderate plasticity, slight sulfuric odor, NV, NS.
SD015	E13	Off-Site	511590.29	5779339.83	22/11/2023	Sediment: Clayey SAND, dark brown, loose, soft, medium to course grained, moist to wet, organic plant roots present, NO, NS, low plasticity
SD016	E13	Off-Site	512837.64	5779485.31	22/11/2023	Sediment: Silty CLAY, strong anaerobic odour, decomposition, brown, dry to moist, moderate to low plasticity, minor plant roots, NS
SD019	E13	Off-Site	518651.55	5780487.87	21/11/2023	Sediment: Silty CLAY, CI, dark brown, medium plasticity, moist, NO, NS, NOM
SD030	E13	Off-Site	514516.63	5780010.56	21/11/2023	Could not access to sample.
SD031	E13	Off-Site	-	-	23/11/2023	Sediment: Silty CLAY, CI, brown, high plasticity, slight orange mottlling, NO, NOM, moist
SD032	E13	Off-Site	-	-	23/11/2023	Sediment: Silty CLAY, CI, brown, high plasticity, moist, minimal black staining, possibly due to organic decomposition, minimal organic material present, NO
SD033	E13	Off-Site	513069.86	5780804.13	21/11/2023	silty clay, brown, mixed with root matter, moist, low plasticity, slightly firm, medium grained, poorly graded, slight organic odour
SD034	E13	Off-Site	511751.29	5780440.49	21/11/2023	silty clay, firm slightly moist, dark brown, low plasticity, no odour, no staining, very minor root matter
SD035	E13	Off-Site	512256.67	5780692.28	21/11/2023	Dark brown silty clay, trace medium grain sand, medium plasticity, moist, no odour, no staining, no organic matter
SD041	E13	Off-Site	512590.57	5780654.11	21/11/2023	SD: dark brown silty clay, medium to high plasticity, no odour, no staining, minor plant roots, minor orange mottle
SD049	E13	Off-Site	511002.45	5783872.55	23/11/2023	light brown silty clay high to very high plasticity moisture organic material no standing no odor
SD052	E13	Off-Site	513528.35	5780380.31	21/11/2023	silty clay, firm, brown mottled with black and light brown, mixed with root matter, med-high plasticity, slight organic odour, fine grained, poorly graded, moist
SD082	E13	Off-Site	509637.63	5777965.97	22/11/2023	Brown silty clay medium plasticity no odor no staining no Organics minor orange mottling soft
SD088	E13	Off-Site	516776.05	5780921.84	21/11/2023	light grey brown silty clay medium to high plasticity with minor orange model no odor no vegetation no staining Trace fine grain sand
SD089	E13	Off-Site	516503.46	5779840.98	21/11/2023	silty clay, trace sand, medium grained, low to med plasticity, no odour, no statining, no organic material, dark brown, moist, poorly graded
SD201	E13	On-Site	510966.97	5783793.22	22/11/2023	SD: brown clayey sand, dry, moderate plasticity, no odour, no organic material, no staining, medium grained
SD206	E13	On-Site	511192.64	5783184.22	22/11/2023	Access blocked by placement of large skip bin
SD209	E13	On-Site	512448.20	5783072.04	17/11/2023	Gravelly sand, mixed with leaf litter and vegetation, loose, well graded, medium grained, very slight organic odour, dark grey brown
SD216	E13	On-Site	512026.00	5782645.43	17/11/2023	No sediment for sample
SD217	E13	On-Site	511877.09	5782558.63	17/11/2023	sandy silt, dark brown, root matter present, loose, dry, medium grained, moderately graded, no odour, low plasticity
SD226	E13	On-Site	511860.00	5782088.75	17/11/2023	Silty clay, brown, minor orange mottle, no odour, moderate to high plasticity, no vegetation, dry, no staining
SD227	E13	On-Site	511553.78	5782168.42	16/11/2023	silty clay, firm, light brown, minimal root matter, fine grained, poorly graded, high plasticity
SD230	E13	On-Site	511900.23	5781561.62	15/11/2023	silty clay, dark grey brown, mixed with reeds, slight organic odour, slightly firm, fine grained
SD231	E13	On-Site	513984.49	5783450.58	20/11/2023	sandy silt, brown, gravel inclusions, moist, medium grained, well graded, low plasticity, root matter present
SD239	E13	On-Site	512981.03	5782718.99	17/11/2023	Clayey sand, moist to wet, brown, medium to coarse grained, no odour, no staining, some roots
SD246	E13	On-Site	512004.75	5781525.60	15/11/2023	SD: silty clay, soft, pale gray brown, soft to firm, fine grained, organic matter - plant roots,
SD258	E13	On-Site	513180.47	5781676.05	16/11/2023	silty clay, dark brown, moist, mixed with roots, fine grained, poorly graded, slightly firm, very slight organic odour, high-medium plasticity
SD259	E13	On-Site	513148.83	5781465.67	16/11/2023	Clayey sand, mixed with reeds and roots, slightly firm, slightly moist, fine grained, poorly graded, low plasticity, very faint organic odour
SD260	E13	On-Site	512026.00	5782645.43	16/11/2023	silty clay, mixed with root matter, dark brown mottled with grey, firm, moist, finely grained, slight organic odour,
SD277	E13	Off-Site	515423.68	5779325.14	21/11/2023	Sandy silty clay, brown, moderate plasticity, moist, fine grained, minor orange mottle, no organic material, no odour, no staining

NOM = No organic material, OM = Organic matter present, NS = No staining, NO = No odour, NV = No vegetation

Instrument Quality Report
Interface Meter

Enqip #: 20956
Company: Stantec Australia Pty Ltd
Consultant: [redacted]
PO #: 304300114
Certificate #: 30806

INSTRUMENT IDENTIFICATION

Instrument Type: Solinst Interface Meter
Model Number: 122
Serial Number: IM-1608

INSPECTION RECORD

Battery:	PASS	**Water Tone:**	PASS
Tape Condition:	PASS	**Hydrocarbon Tone:**	PASS

Tested By: [redacted] **Test Date:** 10/11/2023

Equipment Calibration Form
YSI ProPlus

Enqip #: 20956
Company: Stantec Australia Pty Ltd
Consultant: [redacted]
PO #: 304300114
Certificate #: 30808

INSTRUMENT IDENTIFICATION

Model Number: 6050000
Serial Number: 15D103178 !
Instrument Type: YSI ProPlus

INSPECTION RECORD

Batteries Checked:	PASS	**Date & Time:**	PASS
Electrodes Cleaned/Checked:	PASS	**Temperature:**	PASS

CALIBRATION DETAILS

Sensor	Cal Solution	Value	Reading
pH	Buffer 4.00	4.00 pH	4.00 pH
	Buffer 7.00	7.00 pH	7.00 pH
Redox	Standard ORP	234.5 mV @ 20 °C	234.5 mV
O_2	Zero Dissolved Oxygen	0.0 %	0.0 %
	Air	100.0 %	100.0 %
Conductivity	Standard Conductivity	2.76 mS/cm	2.76 mS/cm

Calibration Successful: YES

Calibrated By: [redacted] **Test Date:** 10/11/2023

Instrument Quality Report
Interface Meter

Enqip #: 20956
Company: Stantec Australia Pty Ltd
Consultant: [redacted]
PO #: 304300114
Certificate #: 30807

INSTRUMENT IDENTIFICATION

Instrument Type: Solinst Interface Meter
Model Number: 122
Serial Number: IM-1610

INSPECTION RECORD

Battery:	PASS	**Water Tone:**	PASS
Tape Condition:	PASS	**Hydrocarbon Tone:**	PASS

Tested By: [redacted] **Test Date:** 10/11/2023

F3.01 Equipment Calibration Report
YSI ProPlus Water Quality Meter

This YSI ProPlus Water Quality Meter has been performance checked as per the manufacturer's guidelines[1].

Unit Type: YSI ProPlus
Serial Number: 19[redacted] 22D1064337

The unit has been checked for and comprises of the following items:

Item	Present	Damaged or Absent?
Carry case	☑	☐
Attached sensors (x4)	☑	☐
Spare Batteries	☑	☐
Connector Cable	☑	☐
Instruction Manual	☑	☐

The following tests and operational checks have been conducted on the unit:

Item	Test Completed	Test Passed
WQM unit electrodes cleaned and checked	☑	☑
Operations check (screen functions)	☑	☑
Temperature check	☑	☑

Calibration:

Sensor	Cal. Solution	Value	Reading
pH	pH: Buffer Solution 4.00	4.00	4.00
pH	pH: Buffer Solution 7.00	7.00	7.00
pH	pH: Buffer Solution 10.00	10.00	10.00
Redox	Standard ORP solution	241 mV @ 15 °c	241 mV @ 10 °c
O_2	Ambient Air for 100% Dissolved Oxygen	100%	100%
O_2	Sodium Sulphite for 0% Dissolved Oxygen	0%	0%
Conductivity	Standard Conductivity Solution	2.76 mS/cm @ 25 °c	2.76 mV @ 25 °c

Checked/ Calibrated by: [redacted]

Signed: [redacted]

Date: 15/11/23

[1] YSI Professional Plus – Calibration Tips; Rev A, December 2010.

F3.01 Equipment Calibration Report
YSI ProPlus Water Quality Meter

This YSI ProPlus Water Quality Meter has been performance checked as per the manufacturer's guidelines[1].

Unit Type: YSI ProPlus
Serial Number: ~~18H102165~~ 22D104337

The unit has been checked for and comprises of the following items:

Item	Present	Damaged or Absent?
Carry case	☑	☐
Attached sensors (x4)	☑	☐
Spare Batteries	☑	☐
Connector Cable	☑	☐
Instruction Manual	☑	☐

The following tests and operational checks have been conducted on the unit:

Item	Test Completed	Test Passed
WQM unit electrodes cleaned and checked	☑	☑
Operations check (screen functions)	☑	☑
Temperature check	☑	☑

Calibration:

Sensor	Cal. Solution	Value	Reading
pH	pH: Buffer Solution 4.00	4.00	4.00
pH	pH: Buffer Solution 7.00	7.00	7.00
pH	pH: Buffer Solution 10.00	10.00	10.00
Redox	Standard ORP solution	234.5 mV @20°c	234.5 mV @20°c
O_2	Ambient Air for 100% Dissolved Oxygen	100%	100%
O_2	Sodium Sulphite for 0% Dissolved Oxygen	0%	0%
Conductivity	Standard Conductivity Solution	2.76 mS/cm @25°c	2.76 mS @25°c

Checked/ Calibrated by: [redacted]

Signed: [redacted]

Date: 20/11/23

[1] YSI Professional Plus – Calibration Tips; Rev A, December 2010.

F3.01 Equipment Calibration Report
YSI ProPlus Water Quality Meter

This YSI ProPlus Water Quality Meter has been performance checked as per the manufacturer's guidelines[1].

Unit Type: YSI ProPlus
Serial Number: 19H102165

The unit has been checked for and comprises of the following items:

Item	Present	Damaged or Absent?
Carry case	☑	☐
Attached sensors (x4)	☑	☐
Spare Batteries	☑	☐
Connector Cable	☑	☐
Instruction Manual	☑	☐

The following tests and operational checks have been conducted on the unit:

Item	Test Completed	Test Passed
WQM unit electrodes cleaned and checked	☑	☑
Operations check (screen functions)	☑	☑
Temperature check	☐	☑

Calibration:

Sensor	Cal. Solution	Value	Reading
pH	pH: Buffer Solution 4.00	4.00	4.14
pH	pH: Buffer Solution 7.00	7.00	7.05 } recalibrated
pH	pH: Buffer Solution 10.00	10.00	9.58
Redox	Standard ORP solution	251 mV @ 15 °c	243 mV @ 15 °c recal.
O_2	Ambient Air for 100% Dissolved Oxygen	100%	
O_2	Sodium Sulphite for 0% Dissolved Oxygen	0%	
Conductivity	Standard Conductivity Solution	10840 µS/cm @ 15 °c	9780 mV @ __ °c recal.

Checked/ Calibrated by: [redacted]

Signed: [redacted]

Date: 20/11/23

[1] YSI Professional Plus – Calibration Tips; Rev A, December 2010.

Unit Type: YSI ProPlus
Serial Number:

Job Number: _____

Date of Bump Test	Ambient Air Oxygen Calibration	Zero % Oxygen Solution Calibration	Standard Concentrations	Bump Test Reading	Bump Test Readings Accepted?	Test by (Name)	(Signature)
16/11/23	100% Saturation? (Y)N	0% Calibration? (Y)N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC:__µS/cm @ __°C (Y) N Redox:241 mV @ 15°c Y / N	pH 4.00: ~~6.88~~ 4.08 pH 7.00: 6.88 pH 10.00: 10.15 EC: 2.745 Redox: 241.3 @ 14.1	Y / N Y / N Y / N Y / N Y / N		
17 AM/11/23	100% Saturation? (Y)N	0% Calibration? (Y)N	pH 4.00 (Y)/ N pH 7.00 (Y)/ N pH 10.00 (Y)/ N EC 27µS/cm @ __°C (Y) / N Redox: 241 mV @ 15°c (Y)/ N	pH 4.00: 4.10 pH 7.00: 6.45 pH 10.00: EC: 2.98 mS/cm @ 25 Redox: 248.5	Y / N Y / N Y / N Y / (N) (Y) N		
21/11/23	100% Saturation? (Y)N	0% Calibration? (Y)N	pH 4.00 (Y) N pH 7.00 (Y) N pH 10.00 (Y) N EC 27µS/cm @ 25C (Y)/ N Redox: 241 mV @ 15°c (Y) N	pH 4.00: 4.14 pH 7.00: 7.00 pH 10.00: 10.15 EC: 2.74 Redox: 241.7	Y / N Y / N Y / N (Y)/ N Y / N		
22/11/23	100% Saturation? (Y)N	0% Calibration? (Y)N	pH 4.00 (Y) N pH 7.00 (Y) N pH 10.00 (Y) N EC 27µS/cm @ 25 °C (Y) N Redox: 241 mV @ 15°c (Y) N	pH 4.00: 4.13 pH 7.00: 6.98 pH 10.00: 10.10 EC: 2.75 Redox: 240.5	(Y)/ N (Y)/ N (Y)/ N (Y)/ N (Y)/ N		
23/11/23	100% Saturation? (Y)N	0% Calibration? (Y)N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC: 27µS/cm @ 25 °C Y / N Redox 241 mV @ 15°c Y / N	pH 4.00: 4.70 pH 7.00: 6.91 pH 10.00: 10.15 EC: 2.92 Redox: 241.0	Y (N) Recal (Y) N (Y) N Y / (N) Y / N		
	100% Saturation? Y N	0% Calibration? Y N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC:__µS/cm @ __°C Y / N Redox: ___ mV @ __°c Y / N	pH 4.00: pH 7.00: pH 10.00: EC: Redox:	Y / N Y / N Y / N Y / N Y / N		
	100% Saturation? Y N	0% Calibration? Y N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC:__µS/cm @ __°C Y / N Redox: ___ mV @ __°c Y / N	pH 4.00: pH 7.00: pH 10.00: EC: Redox:	Y / N Y / N Y / N Y / N Y / N		
	100% Saturation? Y N	0% Calibration? Y N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC:__µS/cm @ __°C Y / N Redox: ___ mV @ __°c Y / N	pH 4.00: pH 7.00: pH 10.00: EC: Redox:	Y / N Y / N Y / N Y / N Y / N		

Unit Type: YSI ProPlus
Serial Number:

Job Number: DEF19008

Date of Bump Test	Ambient Air Oxygen Calibration	Zero % Oxygen Solution Calibration	Standard Concentrations	Bump Test Reading	Bump Test Readings Accepted?	Test by (Name)	(Signature)
15/11/2023	100% Saturation? (Y) N	0% Calibration? (Y) N 13.3°C	pH 4.00 (Y) / N pH 7.00 (Y) / N pH 10.00 10840 (Y) / N EC:__µS/cm @ 15 °C (Y) / N Redox: 251 mV @ 15 °c (Y) / N	pH 4.00: 3.98 pH 7.00: 7.12 pH 10.00: 9.80 EC: 9839 Redox: 246.7	(Y) N (Y) N (Y) N (Y) N (Y) N	[redacted]	[redacted]
16/11/2023	100% Saturation? (Y) N	0% Calibration? (Y) N 13.9°C	pH 4.00 (Y) / N pH 7.00 (Y) / N pH 10.00 10840 (Y) / N EC:__µS/cm @ 15 °C (Y) / N Redox: 251 mV @ 15 °c (Y) / N	pH 4.00: 4.14 pH 7.00: 7.15 pH 10.00: 9.80 EC: 9544 Redox: 246.0	(Y) / N (Y) / N (Y) / N (Y) / N (Y) / N	[redacted]	[redacted]
17/11/2023	100% Saturation? (Y) N	0% Calibration? (Y) N 11.2°C	pH 4.00 (Y) / N pH 7.00 (Y) / N pH 10.00 9570 (Y) / N EC:__µS/cm @ 10 °C (Y) / N Redox: 261 mV @ 10 °c (Y) / N	pH 4.00: 4.10 pH 7.00: 7.16 pH 10.00: 9.84 EC: 9369 Redox: 249.9	(Y) / N (Y) / N (Y) / N (Y) / N (Y) / N	[redacted]	[redacted]
21/11/2023	100% Saturation? (Y) N	0% Calibration? (Y) N 15.3	pH 4.00 (Y) / N pH 7.00 (Y) / N pH 10.00 10840 (Y) / N EC:__µS/cm @ 15 °C (Y) / N Redox: 251 mV @ 15 °c (Y) / N	pH 4.00: 4.03 pH 7.00: 7.27 pH 10.00: 10.05 EC: 10746 Redox: 237	(Y) N Y / (N) (Y) / N (Y) / N Y / (N)	[redacted] Ph 7 - re-cal Redox - recal	[redacted]
22/11/2023	100% Saturation? (Y) N	0% Calibration? (Y) N	pH 4.00 (Y) / N pH 7.00 (Y) / N pH 10.00 10720 (Y) / N EC:__µS/cm @ 15 °C (Y) / N Redox: 251 mV @ 15 °c (Y) / N	pH 4.00: 4.06 pH 7.00: 7.08 pH 10.00: 9.82 EC: 10701 Redox: 246	(Y) / N (Y) / N (Y) / N (Y) / N (Y) / N	[redacted]	[redacted]
23/11/2023	100% Saturation? (Y) N	0% Calibration? (Y) N	pH 4.00 (Y) / N pH 7.00 (Y) / N pH 10.00 (Y) / N EC:__µS/cm @ __°C (Y) / N Redox: ___ mV @ __°c (Y) / N	pH 4.00: pH 7.00: pH 10.00: EC: Redox:	Y / N Y / N Y / N Y / N Y / N		
	100% Saturation? Y N	0% Calibration? Y N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC:__µS/cm @ __°C Y / N Redox: ___ mV @ __°c Y / N	pH 4.00: pH 7.00: pH 10.00: EC: Redox:	Y / N Y / N Y / N Y / N Y / N		
	100% Saturation? Y N	0% Calibration? Y N	pH 4.00 Y / N pH 7.00 Y / N pH 10.00 Y / N EC:__µS/cm @ __°C Y / N Redox: ___ mV @ __°c Y / N	pH 4.00: pH 7.00: pH 10.00: EC: Redox:	Y / N Y / N Y / N Y / N Y / N		

APPENDIX

E

DATA QUALITY REVIEW

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Data Quality Review
RAAF East Sale, VIC, 3852

This Appendix reviews the Quality Assurance (QA) and Quality Control (QC) documentation. Quality assurance encompasses the actions, procedures, checks and decisions undertaken to ensure sample integrity and representativeness, and the reliability and accuracy of analysis results. The QA documentation should also include an indication of the Data Quality Objectives sought in relation to each significant action, test or process involved in the Assessment.

QC activities measure the effectiveness of the QA procedures by undertaking testing, and then comparing results to previously established objectives. QC work will include the internal laboratory testing as well as results of QC samples submitted such as trip blanks and duplicates. The quality of the information and/or data is deemed satisfactory when the QC results demonstrate that agreed objectives have been met.

Cardno undertook a review of its QA/QC as part of the data validation exercise. The findings are summarised below.

QA/QC Aspects	Evidence and Evaluation
	QA Documentation
Sampling and Analysis Quality Plan and Data Quality Objectives	Cardno was engaged by Department of Defence (the client) to carry out the PFAS Ongoing Monitoring Plan (OMP) of RAAF East Sale, VIC 3852 (the site). The monitoring event was undertaken from 13 November 2023 to 24 November 2023 and is in accordance with the scope and limitations presented in Cardno's Sampling and Analysis Quality Plan (SAQP) of 21 December 2023. The assessment was carried out in general compliance with the following: ▪ Australian Standard AS 4482-2005 Guide to the investigation and sampling of sites with potentially contaminated soils, Part 1 - Non-volatile and semi-volatile compounds. ▪ Department of Defence (2019), Contamination Management Manual (DCMM), August 2019. ▪ Department of Defence (2019), Pollution Prevention Guideline - Routine Water Quality Monitoring, Department of Defence, Department of Energy, 2018, Quality System Manual Schedule B15. ▪ EPA Victoria (2009), Industrial Waste Resources Guidelines, Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication 701. ▪ Heads of Environmental Protection Authority's Australia and New Zealand (HEPA) (2020), PFAS National Environmental Management Plan (NEMP) Version 2.0, January 2020. ▪ National Environment Protection Council (NEPC), 1999, National Environmental Protection (Assessment of Site Contamination) Measure (as amended 2013) (ASC NEPM). ▪ National Health and Medical Research Council (NHMRC) (2019), Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water, August 2019. ▪ USEPA (2006), Guidance for the Data Quality Objectives Process (EPA QA/G-4). ▪ USEPA (2002), Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8). A quality control program was implemented during the investigation and the quality assurance procedures used have been reiterated in the report.

QA/QC Aspects	Evidence and Evaluation
	The investigation was carried out in accordance with the Safe Work method Statements (SWMS) and Health, Safety and Environmental Plan (HSEP) for the site. Detailed work plans were also provided for each phase of investigation and are outlined in the SAQP. The Data Quality Objectives were expressed in terms of the purpose of the assessment and the relevant assessment criteria.
Data Validation Report	This review constitutes a data validation review. This was supported by an Esdat generated "QAQC Checker" excel report, summarised in Tables B4 and B5, Appendix B.
Data Representativeness	
Holding Times	Groundwater, Surface water and Sediment sample analysis holding times were in conformance with EPA Publication IWRG701 2009 '*Sampling and Analysis of Waters, Wastewaters, Soils and Wastes.*'
Background Samples	**Groundwater:** One (1) groundwater sampling location is considered upgradient of known on-site contaminant sources as detailed in the SAQP. This is located in the northwest corner of the site (MW010). **Surface water:** Surface water was collected at one (1) location upstream of known on-site contaminant sources (SW077).
Equipment Decontamination	The decontamination methodology conducted during this investigation is documented in the body of the report and was in general conformance with the SAQP. All re-usable sampling equipment was thoroughly washed using PFAS & phosphate-free detergent, then double rinsed with clean water before the sample collection.
Laboratory Re-analysis	Laboratory re-analysis was requested to confirm primary and duplicate sample pairing, and/or order of magnitude increases at the following locations: MW009, MW015, MW304, MW318, MW321, MW603, MW728, SW351, SD258, POT042, POT051, SD011, SD032 and SD049 were reanalysed, and the original results were confirmed. A second set of results for reanalysis of MW603 have been included in the analytical results table.
Data Precision and Accuracy	
QC Testing – Blind Replicates (Primary Lab)	***Groundwater*** ▪ Acceptance Criteria: RPD < 30 % ▪ Groundwater Samples Analysed: 67 ▪ Blind Replicate Samples Analysed: 7 ▪ Blind Replicate Analyte Pairs: 210 (excludes 'analytes' that are a summation of other analytes) ▪ Number of Analyte Pairs Exceeding Criteria: 6 ▪ Percentage of Analyte Pairs Exceeding Criteria: 2.86 % RPD exceedances were associated with PFAS compounds. Analyte concentrations from the primary sample and their corresponding blind replicate sample pairs were all within one order of magnitude. The majority of PFAS RPD exceedances are likely attributed to low concentrations of analyte pairs close to the LOR where small discrepancies can lead to disproportionately large RPDs and where larger RPDs are acceptable (e.g. for ALS, the permitted ranges for the RPD of laboratory duplicates are dependent on the magnitude of results in comparison to the LOR and results <10 times LOR have no limit to RPDs). This is not considered to impact the results of the investigation. As a conservative measure, higher results between primary and blind replicate pairs are used to compare against adopted assessment criteria. Overall, these RPD exceedances are not considered to impact the results of the investigation. RPD results are presented in Table B4, Appendix B. ***Surface water*** ▪ Acceptance Criteria: RPD < 30 % ▪ Surface Water Samples Analysed: 40

QA/QC Aspects	Evidence and Evaluation
	▪ Blind Replicate Samples Analysed: 6 ▪ Blind Replicate Analyte Pairs: 180 (excludes 'analytes' that are a summation of other analytes) ▪ Number of Analyte Pairs Exceeding Criteria: 4 ▪ Percentage of Analyte Pairs Exceeding Criteria: 2.22 % The RPD exceedances occur for PFAS compounds and are likely attributed to low concentrations of analyte pairs close to the LOR where small discrepancies can lead to disproportionately large RPDs and where larger RPDs are acceptable (e.g. for ALS, the permitted ranges for the RPD of laboratory duplicates are dependent on the magnitude of results in comparison to the LOR and results <10 times LOR have no limit to RPDs). As a conservative measure, higher results between primary and blind replicate pairs are used to compare against adopted assessment criteria. This is not considered to impact the results of the investigation. RPD results are presented in Table B4, Appendix B. ***Sediment*** ▪ Acceptance Criteria: RPD < 30 % ▪ Sediment Samples Analysed: 40 ▪ Blind Replicate Samples Analysed: 5 ▪ Blind Replicate Analyte Pairs: 150 (excludes 'analytes' that are a summation of other analytes) ▪ Number of Analyte Pairs Exceeding Criteria: 18 ▪ Percentage of Analyte Pairs Exceeding Criteria: 12 % RPD exceedances were associated with PFAS compounds. They are likely attributed to low concentrations of analyte pairs close to the LOR and sample matrix heterogeneity. This is not considered to impact the results of the investigation. RPD results are presented in Table B5, Appendix B.
QC Testing – Field Splits (Secondary Lab)	***Groundwater*** ▪ Acceptance Criteria: RPD < 30% ▪ Groundwater Samples Analysed: 67 ▪ Field Split Samples Analysed: 7 ▪ Field Split Analyte Pairs: 210 (excludes 'analytes' that are a summation of other analytes) ▪ Number of Analyte Pairs Exceeding Criteria: 19 ▪ Percentage of Analyte Pairs Exceeding Criteria: 9.05% RPD exceedances were associated with PFAS compounds. Analyte concentrations from the primary sample and their corresponding blind replicate sample pairs were all within one order of magnitude. The majority of PFAS RPD exceedances are likely attributed to low concentrations of analyte pairs close to the LOR where small discrepancies can lead to disproportionately large RPDs and where larger RPDs are acceptable (e.g. for ALS, the permitted ranges for the RPD of laboratory duplicates are dependent on the magnitude of results in comparison to the LOR and results <10 times LOR have no limit to RPDs). This is not considered to impact the results of the investigation. A number of RPD exceedances may also be attributed to interlaboratory differences, which can be common and significant, based on a study done by the Queensland Department of Environment and Science and the Victorian Environment Protection Authority (Vardy et al, 2018). As a conservative measure, higher results between primary and field split pairs are used to compare against adopted assessment criteria. Overall, these RPD exceedances are not considered to impact the results of the investigation. RPD results are presented in Table B4, Appendix B. ***Surface water*** ▪ Acceptance Criteria: RPD < 30 %

QA/QC Aspects	Evidence and Evaluation
	▪ Surface Water Samples Analysed: 40 ▪ Blind Replicate Samples Analysed: 6 ▪ Blind Replicate Analyte Pairs: 180 (excludes 'analytes' that are a summation of other analytes) ▪ Number of Analyte Pairs Exceeding Criteria: 8 ▪ Percentage of Analyte Pairs Exceeding Criteria: 4.44 % The RPD exceedances occur for PFAS compounds and are likely attributed to low concentrations of analyte pairs close to the LOR where small discrepancies can lead to disproportionately large RPDs and where larger RPDs are acceptable (e.g. for ALS, the permitted ranges for the RPD of laboratory duplicates are dependent on the magnitude of results in comparison to the LOR and results <10 times LOR have no limit to RPDs). A number of RPD exceedances may also be attributed to interlaboratory differences, which can be common and significant, based on a study done by the Queensland Department of Environment and Science and the Victorian Environment Protection Authority (Vardy et al, 2018). As a conservative measure, higher results between primary and field split pairs are used to compare against adopted assessment criteria. This is not considered to impact the results of the investigation. RPD results are presented in Table B4, Appendix B. ***Sediment*** ▪ Acceptance Criteria: RPD < 30 % ▪ Sediment Samples Analysed: 40 ▪ Blind Replicate Samples Analysed: 5 ▪ Blind Replicate Analyte Pairs: 150 (excludes 'analytes' that are a summation of other analytes) ▪ Number of Analyte Pairs Exceeding Criteria: 4 ▪ Percentage of Analyte Pairs Exceeding Criteria: 2.67 % RPD exceedances were associated with PFAS compounds and are likely attributed to low concentrations of analyte pairs and sample matrix heterogeneity. This is not considered to impact the results of the investigation. RPD results are presented in Table B5, Appendix B.
Trip Blanks	Six trip blanks were collected, and laboratory tested for PFAS. All analytes were reported below the limit of reporting (LOR). Trip blank results are presented in Table B6, Appendix B.
Field Blanks	Seven field blanks were collected, and laboratory tested for PFAS. All analytes were reported below the limit of reporting (LOR). Trip blank results are presented in Table B6, Appendix B.
Laboratory Internal QC	Evidence of the laboratories internal QC testing is present and complete. Both ALS (the primary laboratory) and Eurofins-mgt (the secondary laboratory) performed internal QC with adequate testing and mostly satisfactory results for matrix spikes, method blanks and laboratory duplicates. Outliers were reported as follows: ▪ Report EM2320952 – Duplicate and Matrix Spike outliers exist. ▪ Report EM2320909, EM2320913, EM2320916, EM2320919 – Quality Control Sample Frequency outliers exist. ▪ Report EM2320910, EM2320912, EM2320914, EM2320915, EM2320917, EM2320918 – Matrix Spike and Quality Control Sample Frequency outliers exist. The occurrence of Quality Control Sample Frequency outliers was due to all Quality Control Samples listed on a singular lab report: EM2320952. Overall, the internal lab quality control outliers are minor and are not considered to affect the overall data quality or outcome of the investigation.
Laboratory Method Detection Limit	Laboratory reports indicate the method detection limits were generally lower than the respective assessment criteria.

QA/QC Aspects	Evidence and Evaluation
	The LOR for PFOS in groundwater was 0.01 µg/L, which is above the adopted criterion of 0.00023 µg/L for Maintenance of Ecosystems.
NATA endorsement of laboratory reports	Laboratory reports were stamped with the NATA endorsement stamp and signature. Laboratory reports are included in Appendix C of this report.
Calibration of Field Equipment	All field equipment used was calibrated by the equipment supplier. Certificates are included in Appendix D of this report. Additionally, daily bump tests were performed of the water quality meter throughout the monitoring event.
Decontamination and Equipment Blanks	14 rinsate blanks (one per set of equipment per day) were collected during the investigation from the groundwater interface probes, surface water sampling pole and sediment sampler. Only 7 rinsate blanks were analysed. Samples were tested for PFAS, where one rinsate samples reported PFOS and Sum of PFHxS + PFOS near the LOR. The rinsate sample was collected from an interface probes (IP), which is not directly utilised during the sample collection process. Overall, this is not considered to significantly impact the results of the investigation. The decontamination procedure will be reviewed with the field staff. Rinsate blank results are presented in Table B6, Appendix B.
Data Comparability	
Full Review of Data	Once all results have been received, Cardno undertook a full review of the data for any anomalies in consideration of historical data at each location (where available), such as first-time detections or exceedances being reported at locations which have not had detections or exceedances previously. Where potentially anomalous data is identified or suspected, further confirmatory measures were undertaken such as re-extraction and reanalysis of the sample by the laboratory and/or additional data quality review. Laboratory re-analysis was requested to confirm primary and duplicate sample pairing, first-time detections, new exceedances and/or order of magnitude increases at the following locations: MW009, MW015, MW304, MW318, MW321, MW603, MW728, SW351, SD258, POT042, POT051, SD011, SD032 and SD049 were reanalysed, and the original results were confirmed. A second set of results for reanalysis of MW603 have been included in the analytical results table for comparison.
Standard Procedures	Fieldwork procedures are detailed in the report and followed the work methods outlined in the SAQP.
Qualified Personnel	Staff involved in managing and reviewing the project and those involved in fieldwork are qualified personnel.
Sample Integrity	Field Chain of Custody forms are included in Appendix C of this report and demonstrate sample integrity.
Data Completeness	
Completeness of Test Program	The scope of work undertaken was consistent with that set out in the Sampling and Analysis Quality Plan (SAQP). Variations to the SAQP are detailed in the Factual Report.
Validity of Data Set	The data quality review indicates no significant systematic errors in the data collection process for groundwater, surface water and sediment and therefore, the data set used as the basis for the assessment is considered valid and complete.

APPENDIX

F

INFORMATION ABOUT ENVIRONMENTAL REPORTS

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About Site Environmental Assessment Reports

1. Introduction

This document explains the Environmental Site Assessment (ESA) process and the context that applies to the use of Environmental Reports issued by Cardno.

2. What is an ESA?

Environmental Site Assessments (ESA) are undertaken for a range of purposes, specific to the brief issued by the client in each case. The scope may include one or a combination of any of the following:

- A factual report of the condition of a portion of the site or one aspect of an entire site.
- Assessment of the contamination levels in soil to be removed from a site – a waste classification assessment.
- Validation of the success of remediation of a site or a portion of a site.
- Provision of a professional opinion about the suitability of a site for one or more uses, in terms of its contamination status.

The scope of any ESA needs to be defined at the outset.

An ESA is not an Environmental Audit. Such audits are undertaken in accordance with the provisions of regulations enacted in various states of Australia, and are referred to as Site Audits in some jurisdictions. Statutory audits provide certification by EPA accredited auditors that a site is suitable for one or more uses. An ESA may provide similar advice but cannot be used in place of an audit if the latter is required by regulation in any instance. However in some circumstances and jurisdictions an ESA is sufficient to provide "environmental sign-off" of a site.

An ESA may be undertaken for due diligence purposes, to establish whether the site has been impacted to the extent that some beneficial uses of the site may be precluded. Due diligence audits in many cases may be completed as non-statutory Audits, although in some jurisdictions they can also be statutory audits, if defined as such at the outset.

3. The ESA Process

The Client generally initiates the ESA process by specifying a brief which identifies the specific objectives of the assessment. If not, it is the consultants' duty to so specify the ESA

In the case of an ESA to provide an opinion about the suitability of the site for use, it would be conducted in accordance with NEPM (Site Assessment). Such ESA would not commence until a thorough site history assessment (Phase 1 Assessment: to identify the potential for significant contamination at a site) is conducted. However, where the history is unclear, a broad screening of chemical parameters can be used to test environmental media. This normally includes a broad range of organic and inorganic compounds and elements, often referred to as an Environmental Screen.

(In the case of an ESA for a purpose other than to provide an opinion about the suitability of the site for use, it is not always necessary to undertake a Phase 1 assessment.)

The ESA requires sampling of soil at representative locations across the site. A NATA accredited laboratory performs the analysis of soil. It is impractical for all of the soil to be assessed. The ESA is often based on a statistical method of grid or random sampling, augmented by targeted sampling at locations known or suspected to be contaminated. Guidance on sampling strategy and density is provided in Australian Standard AS4482.1–2005. However, some considerable degree of judgement is still required in the application of any sampling and testing strategy. For example the blanket application of the "hot spot" method presented in this standard is often inappropriate given its limitations.

The field program also investigates the likelihood of contamination below the site surface. Field investigations must sample and test fill as well as the natural soils. If contamination is found then it is common for further work to be undertaken to characterise, to the extent practical, its vertical and horizontal extent. However, where fill is encountered and testing shows it to be uncontaminated, it must be realised that the heterogeneous nature of the material might mean that not all pockets of contaminated material can be detected using normal sampling regimes.

EPA guidelines for auditors, that may be relevant for an ESA, indicate the need in all cases to consider the potential for groundwater contamination in any site. This does not mean all sites need to be drilled to sample groundwater, but it is most often the case. Most hydrogeological settings and groundwater conditions are complex and vary in space and time. The condition of groundwater is investigated to identify if any beneficial use or environmental value of groundwater is precluded due to contamination.

As previously stated for soil, all groundwater at the site cannot be tested. The environmental investigations are conducted in accordance with industry standards and guidelines (e.g. EPA Vic Pub 668). This provides a level of confidence that a sufficiently comprehensive assessment of the groundwater at the site is achieved.

Where an investigation shows that groundwater is polluted, consideration should be given to assessing the risks and the need for and practicality of any clean up.

4. Environmental Assessment Report

The ESA Report details the findings of the ESA. It provides summary information on the site definition, the reasons for the assessment and other relevant facts. It reviews the scope and quality of the site investigations, laboratory testing and data analyses undertaken. These reports also present a review of the contamination status of the site, the need for any further clean up, and an opinion on the suitability of the site for a range of beneficial uses and land uses such as “residential – low density”, “commercial” etc, as appropriate.

However, as noted above, some ESA have a narrow scope such as for classification of waste soil for removal from site, and do not make conclusions on suitability of site for use.

The ESA Report generally includes copies of other documents and reports, necessary to support the assessment findings, presented as appendices. These can contain more detailed information than the body of the ESA Report. Care should be taken to also read the appended documents and the ESA report in full.

Cardno generally issues reports in electronic form (e-Report) on CD ROM. ESA Reports are issued in this format as Adobe Acrobat™ PDF files. However, a paper copy of the executive summary of the ESA Report is generally issued to the client, and others as required by the brief or by regulation.

5. Limitations of Environmental Assessment Report

The ESA Report is prepared in a manner that can be easily read by a lay person with a legitimate interest in the contamination status of the site, such as the site owner or occupier, EPA and Local Planning Authority. The ESA report is not intended for use by other parties or for other purposes. Anyone who uses the assessment report for purposes other than specified in the report, does so at their own risk.

The site should only be used for one or more of the beneficial uses and land uses identified in the ESA as suitable.

The conditions and qualifications may apply to the suitability of the site for use, and it is the responsibility of the Client to be cognizant of and accept these in accepting the report. Cardno are only responsible for the issuing of the ESA report but accepts no liability for the costs incurred in the implementation of ESA findings.

The ESA provides a “snapshot” of the site conditions at the time of the site investigation. Consequently, the report may not be valid at a later time if there has been any change to the contamination status of the site in that time. Verification of the status of the site may be required in cases where a significant time has elapsed, or site conditions have changed since the assessment and audit.

The ESA is necessarily limited by constraints such as time, cost and available information; although normal professional practice at the time has been applied with all due care to prepare the report. A necessary requirement of this process is the horizontal and vertical interpolation of data from discrete locations. However, site conditions are generally not homogenous and some discrepancies will occur between the actual and predicted results at locations not directly sampled. There is a risk that contamination may occur at the site and not be identified by a competent investigation and assessment. The approach adopted in sampling (a combination of statistically based grid and judgmental sampling) seeks to reduce, but cannot eliminate, this risk.

Where unexpected occurrences of contamination arise, subsequent to the issue of the ESA Report, Cardno should be permitted to make an interpretation of these facts in relation to the ESA Report findings. Consequently, the Client should inform Cardno and seek their opinion. Cardno accepts no liability for costs incurred due to such

unexpected occurrences, given the inherent uncertainties in the assessment process.

Cardno uses information provided by other parties as the basis for the ESA, and reliance on this information is at the discretion of Cardno. However, however Cardno cannot guarantee any of the facts, findings or conclusions presented by other parties. Cardno will not be liable for the use of information, provided by others that is subsequently found to be intentionally misleading.

The ESA Report is not and does not purport to be anything other than a contaminated land ESA. It is not a geotechnical report and bore logs reproduced are for interpretation of the likely distribution of contamination. They are not intended for geotechnical interpretations and may not be adequate for this purpose.

The ESA Report is not intended to be a comprehensive analysis of the presence and associated risk of asbestos in buildings and services. Where asbestos in buildings and services is known or likely, the report may only caution that an appropriately qualified person be engaged to undertake demolition to avoid contamination of the site.

Cardno

13 August 2015

APPENDIX

E

SAQP

Cardno

now

Stantec

PFAS OMP Sampling and Analysis Quality Plan (SAQP)

RAAF Base East Sale

DEF19008

Prepared for
Department of Defence

21 December 2023

Cardno

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Version	Effective Date	Description of Revision	Prepared by	Reviewed by
[redacted]				

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1 Introduction

Cardno, now Stantec (Cardno), have been engaged by the Australian Department of Defence ('Defence') to prepare a Sampling and Analysis Quality Plan (SAQP) as part of the Ongoing Monitoring Plan (OMP), the purpose of which is to monitor trends in the extent and concentrations of per- and poly-fluoroalkyl substances (PFAS) identified on and around RAAF Base East Sale (the "Site"), Victoria.

The OMP SAQP applies to RAAF Base East Sale and surrounding areas that make up the "Management Area", outlined in Figure 1A, Appendix A and defined in Section 2.1.1.

The Site is located on Commonwealth Land and is regulated under Commonwealth environmental legislation.

The OMP outlines the rationale and scope for ongoing monitoring of the concentrations and extent of PFAS in groundwater, surface water and sediment originating from the Site. Findings from the monitoring will be used to assess any changes to the nature and extent of PFAS impact within the environment, where there is an identified potentially elevated risk to a receptor, or a potential future risk to a receptor. The original OMP (Senversa, 2018a) was first implemented in late 2019. The OMP then went through a review process (Senversa 2022) and was first revised in late 2022 and subsequently revised as Final in early 2023, with the revised OMP taking effect at the start of 2023 (Senversa, 2023). Future reviews of the OMP, if required, will commence after publication of the Ongoing Monitoring Interpretive Report (OMIR) and may be conducted concurrently with, or sequentially to, the PMAP.

1.1 Scope & Objectives

The purpose of the SAQP is to present the specific monitoring locations, sampling methodologies and quality assurance / quality control (QA/QC) measures for the monitoring of the concentrations and extent of PFAS in groundwater, surface water and sediment at and around the Site under the OMP. These findings will inform risk management decisions by Defence and the Victorian Government to protect human health and the environment.

The objectives of the ongoing monitoring program as set out in the OMP are to:

- Implement a program of surface water, groundwater and sediment monitoring to continue to assess changes in risk from PFAS within the environment, focusing on where there is an identified potential risk requiring management under the PFAS Management Area Plan (PMAP); and
- Assess the seasonal effects of PFAS concentrations in surface water, groundwater and sediment, including, during or immediately following extreme or high rainfall events.

The scope of the monitoring specified in the OMP includes:

- Evaluate any changes in risk from PFAS in groundwater and surface water associated with site sources of PFAS derived from AFFF;
- Monitor the migration of PFAS in groundwater and surface water from the Site;
- Evaluate the nature and extent of PFAS impact in surface water and groundwater;
- Provide confirmation of the current understanding of risk; and
- Provide supporting data for assessment of management actions, where relevant.

These objectives fulfil the recommendations outlined in the PMAP (Defence, 2018c) to provide supporting data to inform the ongoing management requirements for impacted media on and offsite contributing to a potentially elevated risk to receptors.

1.2 Previous Reports

The following key reports prepared in relation to the RAAF Base East Sale PFAS Investigation have been used as a basis to develop this SAQP:

- Senversa (2016), *Preliminary Site Investigation (PSI) – RAAF East Sale– Per- and Poly-fluoroalkyl Substances (PFAS) Investigations*, October 2016.

> Senversa (2017a), *Detailed Site Investigation (DSI)– RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations*, June 2017.

> Senversa (2017b), *Interim Human Health and Ecological Risk Assessment,* December 2017.

> Senversa (2018a), *Ongoing Monitoring Plan (OMP), PFAS Management Area Plan - RAAF Base East Sale* (0937), July 2018.

> Senversa (2018b), *RAAF Base East Sale Human Health and Ecological Risk Assessment (HHERA),* August 2018.

> Department of Defence (2018c), *RAAF Base East Sale PFAS Management Area Plan (PMAP),* August 2018.

> Senversa (2022), PFAS Management Area Plan – OMP Review Report, RAAF Base East Sale, 26 August 2022.

> Senversa (2023), Ongoing Monitoring Plan, PFAS Management Area Plan - RAAF Base East Sale (0937), 21 February 2023.

1.3 Responsible Parties

Responsible parties and responsibilities associated with the implementation of the OMP are detailed in Table 1-1.

Table 1-1 Responsible Parties

Role	Responsibilities
Department of Defence – PFAS Investigation and Management Branch	▪ Implement this OMP. ▪ Engage suitably qualified environmental consultants/contractors to carry out the works specified in the OMP.
RAAF Base East Sale – Base Manager and Environment and Sustainability Manager	▪ Review and approve all necessary permits required for implementation of the works outlined in the OMP.
Environmental Consultant	▪ Obtain necessary permits from RAAF Base East Sale to implement the works outlined in the OMP. ▪ Liaise with local council or water authority (e.g. Department of Environment, Land, Water and Planning) to arrange sampling of offsite waterways, as required. ▪ Undertake the monitoring activities outlined in this SAQP. ▪ Produce a monitoring report that summarises the data and findings of each monitoring event and is consistent with the requirements of this SAQP. ▪ Produce an OMIR including recommendations for any potential changes in the location and frequency of sampling which may be incorporated in the revision of the OMP. ▪ Upload analytical data from each monitoring event to the relevant Defence ESdat database.
Department of Defence and Environmental Consultant (lead)	▪ Liaise with offsite private property owners/relevant authorities to arrange private property access to conduct sampling and ascertain external party requirements that Defence might be able to assist with.
PMAP Lead Consultant	▪ Implement PMAP recommendations and undertake PMAP review. ▪ Undertake OMP review.

1.4 Relevant Guidelines

This SAQP has been prepared in general accordance with the current 'industry standards' for a site investigation for the purpose, objectives and scope identified in this report. These standards are set out in:

> Australian Standard AS 4482.1-2005, *Guide to the investigation and sampling of sites with potentially contaminated soils, Part 1 - Non-volatile and semi-volatile compounds* (withdrawn as pending revision, referred to for 'state of knowledge').

- Department of Defence (2019), *Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guidance - Routine Water Quality Monitoring.*
- Department of Defence (2021), *Contamination Management Manual (DCMM), Annex L – Data Management*, August 2019, Amended June 2021.
- Department of Defence, Department of Energy (2018), Quality System Manual Schedule B15 USEPA DQO Process.
- Environment Protection Authority (EPA) Victoria (2009), *Sampling and Analysis of Waters, Wastewaters, Soils and Wastes*, Publication 701, June 2009.
- EPA Victoria (2020), *Interim Position Statement on PFAS*, Publication 1669.4.
- EPA Victoria (2022), *Groundwater Sampling Guidelines,* Publication 669.1, February 2022.
- Heads of Environmental Protection Authority's Australia and New Zealand (HEPA) (2020), *PFAS National Environmental Management Plan (NEMP) Version 2.0*, January 2020.
- National Environment Protection Council (NEPC) (2013), *National Environmental Protection (Assessment of Site Contamination) Measure (1999, as amended 2013)* (ASC NEPM).
- National Health and Medical Research Council (NHMRC) (2019), *Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water*, August 2019.
- United States Environment Protection Authority (USEPA) (2006), *Guidance for the Data Quality Objectives Process (EPA QA/G-4)*.
- USEPA (2002), *Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).*

1.5 Standards of Assessment and Limitations

This SAQP has been prepared in general accordance with the current industry standards for an assessment of this type for the purpose, objectives and scope identified in this report.

The scope presented in this SAQP report are derived only from available desk-based information and site inspection undertaken. This SAQP is not any of the following:

- An Environmental Audit Report as defined under the Environment Protection Act 2017.
- A Geotechnical Assessment.
- A Detailed Site Investigation (DSI).
- A Detailed Hydrogeological Assessment.
- A Remediation Action Plan (RAP) report.
- A Site Management Plan (SMP).

2 Site Setting

2.1 Site Description

RAAF Base East Sale is located approximately 220km south-east of Melbourne in the Gippsland region of Victoria and covers an area of 800 hectares (ha). RAAF Base East Sale is an active RAAF base, airport and training facility.

The Site is situated approximately 5km east of the centre of Sale. The majority of the buildings and associated infrastructure and support services are located in the west portion of the Site and include:

- Childcare facility and various accommodation blocks.
- Two main runways are located mainly on the eastern part of the Site.
- Aerodrome and aircraft support areas located in the centre of the Site.
- Recreation facilities located in the south-west section of the Site.

The Site will continue to be used as a RAAF Base, airport and training school for the foreseeable future. Significant upgrades to site facilities are currently underway to accommodate proposed growth of the training facility.

2.1.1 Management and Monitoring Area Descriptions

The OMP includes sampling and analysis not only from the Site, but also from a number of surrounding (Offsite) waterways and privately owned and leased properties. For the purpose of this report, the Site and these surrounding areas which collectively encompass the network of OMP monitoring locations, are referred to as the "Monitoring Area".

> The "Onsite Monitoring Area" and the "Management Area" are both defined as RAAF Base East Sale (the Site);

> the "Offsite Monitoring Area" is defined as 13 privately owned properties to the east and south-east of the Site and The Heart Morass wetland;

> the "Offsite Monitoring Area: Heart Morass" is essentially defined by the extent of The Heart Morass wetland and the section of the Latrobe River that borders it. It forms part of the Offsite Monitoring Area and incorporates 6 of the private properties and public land to the south and south-east of the Site.

2.1.2 Site Definition and Planning

For the purposes of this SAQP report, "the Site" is defined as comprising RAAF Base East Sale. A detailed description of the Site is provided in the OMP Report (Senversa, 2023). The Site location is presented on Figure 1, Appendix A.

Key site identification details are presented in Table 2-1.

Table 2-1 Site Identification Details

Details	Description
Site Address	RAAF Base, Aerodrome Road, East Sale, VIC, 3852
Land Description	RAAF Base East Sale
Owner	Department of Defence
Title Details	Lots 1 to 22 on Title Plan 825540
Planning Zone / Land use	Commonwealth Land
Local Government Authority (LGA)	Wellington Shire Council
Source: Senversa, February 2023, Ongoing Monitoring Plan – PFAS Management Area Plan – RAAF Base East Sale (Senversa 2023)	

2.1.3 Surrounding Land Uses and Zoning

All land surrounding the site is zoned 'Farming (FZ)' in the Wellington Shire Council municipality and includes 30 residential homes within a 1km radius (Senversa, 2023). The surrounding land uses are outlined in Table 2-2.

Table 2-2 Surrounding Land Uses

Direction	Land Use
North	Rural farming, dairy and cattle grazing.
East	Rural farming, dairy and cattle grazing. Lake Wellington. The Heart Morass.
South	Rural farming, dairy and cattle grazing. The Heart Morass.
West	Rural farming, dairy and cattle grazing.

2.1.4 Environmental Setting

Key details defining the Site are summarised in Table 2-3. See Figure 1, Appendix A for key features.

Table 2-3 Key Site Details

Setting	Description
Climate	The area is described as having a Mediterranean climate, consisting of higher temperatures and lower rainfalls in summer. However, due to its coastal proximity the climatic depressions create a milder climate and more evenly distributed rainfall. The highest volume of rainfall typically occurs during the month of November with a mean monthly rainfall amount of 62.2 mm in 2021 and 63.1 mm in 2022. January is the hottest month with the mean maximum temperature of 26.1°C in 2021 and 25.6°C in 2022. By contrast, winters are cool with July average maximum and minimum temperatures being 14.2°C and 3.6°C in 2021 and 13.9°C and 3.3°C in 2022 respectively.
Topography	The Site slopes gently in a general south-easterly to east direction towards Lake Wellington and the Heart Morass with elevation ranging from approximately 8m relative to the Australian Height Datum (mAHD) at the western boundary, to 3.5mAHD at the eastern Site boundary.
Geology	**Regional Geology:** The Site is underlain by Quaternary alluvial terrace deposits comprising predominantly brown, interbedded silts, sands and clays. **Site Specific Geology:** Previous environmental investigations have targeted multiple aquifer formations including the shallow Quaternary-aged flood plain and quaternary alluvial terrace deposits (0 – 6 mbgl – clays, silts and clayey sands), quaternary Lower Alluvium (approx. 7 – 10 mbgl) and the Quaternary-aged sediments of the Haunted Hills Formation (10 – 15 mbgl – silty sands, sands and gravelly sands). Previous investigations have drilled to a maximum depth of approximately 36 mbgl (Senversa, 2018a). A summary of the general sub-surface soil conditions encountered across the site during the DSI (Senversa, 2017) is provided below: ▪ **Grass/Topsoil/Crushed Rock/Concrete/Asphalt** – 0.0 – 0.05/0.1 mbgl: topsoil predominantly brown, sandy silt with fine grained ands, trace clay and roots. Thin profile of crushed rock and concrete/asphalt surface slab in some areas. ▪ **Fill** – 0.0 – 1.0 mbgl: brown/yellow brown/red brown, sand / silty sand / sandy gravel / sandy silt with minor to trave angular gravel, silt and clay. Anthropogenic material including trave brick fragments, glass, plastic, wood, metal, material, ash, bitumen and terracotta observed. ▪ **Upper Alluvium** – 0.1 – 5.0 to 7.0 mbgl. The following lithologies were present in this general order from shallow to deep: – Clayey SILT/ Silty CLAY: Low to medium plasticity brown, yellow brown and red brown silty clay/clayey silt with trace fine grained sand. Uniformly graded, rounded sand. – SILT: Non-plastic Orange-brown mottled brown and light grey, soft, silt with minor fine sand with trace clay. Uniformly graded, rounded sand. – Clayey SAND/ Sandy CLAY: Low plasticity. Brown to light brown and grey, soft, clayey sand/ sandy clay. Uniformly graded, fine grained, well rounded sand. – Sandy SILT/Silty SAND: Brown mottled light brown, orange, yellow and grey, fine grained silty sand/sandy silt with trace clay. Uniformly graded, rounded sand. – CLAY: Low to high plasticity clay, brown mottled yellow and red brown, trace silty and fine grained sand. ▪ **Lower Alluvium** – 5.5 – 10 to 12 mbgl. The Lower alluvium consisted of the following lithologies: – Silty CLAY/ Clayey SILT: Low plasticity to non-plastic. Light brown mottled bluegrey, yellow and orange stiff, silty clay with trace fine grained sand. Uniformly graded, rounded sand. – Silty/Clayey SAND: Low plasticity. Brown mottled orange, yellow and grey, silty/clayey sand. Uniformly to gap graded, rounded sand. – SAND: Brown, fine to medium grained sand with trace silt and clay. Uniform to gap graded, rounded sand. ▪ **Haunted Hills Formation** – 10 – 36+ mbgl. The Haunted Hills Formation consisted of the following lithologies: – Sandy GRAVEL: Non-plastic. Orange-brown to pale grey-brown, fine to coarse grained sandy gravel and cobbles with minor fine to coarse grained sand, trace silt and clay. Well graded, rounded sand and gravel.

Setting	Description
	– Silty CLAY: Medium plasticity, dark grey, firm. – SAND: Dark grey, medium to coarse grained sand. Gap graded, sub-rounded sand. – Silty SAND: Brown mottled grey-orange, fine grained silty sand with trace clay. Uniformly graded, rounded sand. ▪ **Nuntin Clay (Boisdale Formation)** – 36+ mbgl. Consists of medium to high plasticity silty clay, dark grey, firm, with trace fine grained uniformly graded, rounded sand. The Nuntin clay is known regionally as an aquitard between the Haunted Hills Formation and Wurruk Sands member.
Acid Sulfate Soil	A review of the Acid Sulfate Soils (ASS) risk mapping, available on the CCMA[2] Soil Health online database indicates that the most southerly section of the Site is classified as having a high probability of ASS occurrence and the rest of the Site having a low probability of occurrence.
Hydrology	The Site is located within the West Gippsland Catchment Area. Several rivers including the Thompson and Latrobe Rivers converge in this low-lying area, which results in wetlands and inundation zones. These drain into Lake Wellington before ultimately draining into the Southern Ocean. The Site comprises three principal drainage catchments (i.e. Monitoring Area Drainage): ▪ **Eastern "main" Drain:** Originating in the northern section of the Site from the eastern end of the airfield, where it deepens to 4-5 m as it progresses to its discharge point, which is in the south-eastern section of the Site towards the Heart Morass. This drain aligns with a natural former unnamed creek, which is evident on historical geological maps. ▪ **Western Drain:** Originating in the northwest of the Site from the Base facilities and operational areas, where it is 1-2 m deep and concrete lined until the golf course. At this point it is an unlined channel to the southern boundary where water accumulates in a stormwater retention pond. This pond is part of new upgrade works which divert surface water east in a concrete lined culvert to converge with the Eastern Drain. ▪ **Central Drain:** Located in the southern section of the airfield, it drains central areas towards the stormwater retention pond and the associated Western Drain. It is an unlined open channel ranging in depth from 0.5 m to 2 m deep. The north of the Site, above the airfield, is not dominated by a major drainage channel but is rather a network of smaller drainages, discharging offsite along Cobains Road and ultimately draining into Lake Wellington.
Hydrogeology	The hydrogeological units encountered at the Site during previous investigations and DSI works include the following, separated by aquitards with low porosity and a high clay content: – **Upper Alluvium Aquifer-** 0-6 mbgl. Consists of interbedded silt, sand and clays. Groundwater approximately 1-1.5 mbgl. – **Lower Alluvium Aquifer-** 5 – 12 mbgl, The Lower alluvium aquifer was separated from the Upper alluvium by a 1-2 m thick clay or silty clay unit. The Lower alluvium aquifer consisted of mainly sand with varying components of silt and clay. Groundwater approximately 0.8-4.5mbgl. – **Haunted Hills Formation Aquifer-** 10-36 mbgl, the Haunted Hills Formation aquifer was separated from the alluvium by a 2-5 m thick silty clay and clay layer aquitard, followed by bands of silty/clayey sands and characteristic alluvial sandy gravels. Groundwater approximately 1.2-3.9mbgl. – **Nuntin Clay (Boisdale Formation)-** >36 mbgl, this unit, the upper aquitard unit of the Boisdale formation, consisted of silty clay with trace fine grained sand. Groundwater not encountered in this unit at the limit of investigation. ▪ **Depth to Groundwater** – Groundwater occurring from within the Alluvial deposits has previously been recorded beneath the Site at levels of between near surface and 10 mbgl and groundwater occurring from the Haunted Hill formation was recorded at levels between 5m and 30 mbgl (Senversa, 2016). Depth to groundwater of the Wurruck Sand Aquifer has been recorded at levels ranging from 100-300 mbgl. ▪ **Groundwater Flow Direction** – The flow of groundwater through the Site was towards the southeast, consistent with the local topography. ▪ **Groundwater Use** – Local Water Use Surveys were completed for properties surrounding the Site in 2016 as part of the PSI (Senversa, 2016) and in 2022 as part of the OMP monitoring event (Cardno, 2022). The Water Use Surveys provided the following additional information: – Rainwater tanks provided the primary drinking water supply at all properties surveyed. – Several registered bores were no longer in use.

Setting	Description
	– The upper groundwater aquifers are commonly extracted across properties to the north, southeast, south and west of the site for non-potable uses. Reported uses of the shallow groundwater included domestic non-potable supply (bathroom and laundry), outdoor domestic supply, dairy operations, irrigation of pasture, stock watering and abattoir operations. – Groundwater from the deeper Boisdale Formation is extracted from multiple bores across the area investigated. Reported uses of the deep groundwater included drinking water (Supplements Base water supply), outdoor domestic supply, dairy operations, irrigation of pasture and stock watering. – Groundwater is also regularly extracted and stored in above ground surface water bodies, termed 'turkey's nest'. The water is then accessed when needed for purposes such as irrigation or stock watering. – The MID irrigation channel network was widely used by dairy farms across the north and western areas off-Site, with the water generally used for flood irrigation of pasture. – No changes were noted between the 2016 results and the 2022 results for properties which participated in the survey. Within the Monitoring Area, the following groundwater extraction bores (no bores are used for drinking purposes) are present on private properties: – One installed within the Lower Alluvium, 10 inferred to be installed in the Haunted Hills Formation, and two installed within the Boisdale Formation. – Nine are used for stock watering. – Six are used for irrigation (pasture), with three not currently in use. – Five are used for outdoor domestic uses (home grown produce/gardens). During the DSI (Senversa, 2017a) and to inform the HHERA (Senversa, 2018b), a number of water supply taps, tanks, bores and stock troughs were sampled, with the results indicating: – The on-Site drinking water supply is partially sourced from the deep groundwater Site extraction bore and results from on-Site and off-Site groundwater bore sampling of this groundwater unit established that detectable PFAS were not present. – Private property water tank samples were targeted to properties located near to the site boundary and results established that detectable PFAS are not present in the private drinking water supply on these properties. – Stock troughs located within the site leased grazing area are supplied by water from the on-Site water supply and were sampled at four locations. The results established that PFAS does not exceed the adopted stock watering (drinking water) screening criteria adopted in the DSI. – As indicated above, PFAS was generally not recorded in offsite private extraction bores, with the exception of bores present to the south of the Base, which recorded low concentrations (with one higher concentration not replicated in further sampling). ▪ **Receiving Surface Water Body** – Beneath the Site, shallow groundwater is generally moving in a south-easterly direction, which would correspond to surface water drainage. However, due to there being limited spatial coverage of groundwater wells presently at the Site, this flow is not well understood. Yet it can be inferred that local groundwater may be influenced by local features such as surface water bodies and drainage lines, geological features, and anthropogenic activities (irrigation). In the area surrounding the Site, groundwater is expected to flow east to south-east towards Lake Wellington. Groundwater flow contours are shown on Figure A2, Appendix A (Senversa, 2023).
Environmental Sensitive Areas	The Heart Morass wetlands are located 500m to the south of the Site. The wetland covers 1,125ha of land and is covered by a protective covenant, with the eastern portion a state game reserve managed by Parks Victoria. Historically, the Heart Morass has been subject to widespread clearing, grazing, poor water management, acid sulphate soil and salinity impacts, resulting in significant degradation and the wetlands completely drying for the first time in 2006 (WGCMA, 2016). Rehabilitation of the area has occurred since 2006, with subsequent improvement in the health and function of the local ecology. The Heart Morass is also located between two areas of the Gippsland Lakes RAMSAR wetlands, which are considered to have significant ecological value. In addition, this area is used as a game reserve for duck hunting, fishing, and other recreational purposes and is highly valued by the community.

Setting	Description
	The Latrobe River runs adjacent to the wetlands, with the river and wetlands draining into Lake Wellington approximately 4 km east of the Site. The Dowd Morass wetlands are located directly south of the Latrobe River and the Sale Common wetlands are located to the east of the confluence of the Thompson and Latrobe Rivers, south-west of the Site. The Dowd Morass and Sale Common wetlands have been recognised as Ramsar wetlands, and are a matter of national environmental significance.
Wetlands	The Heart Morass, Dowd Morass and Sale Common Wetlands are hydraulically downgradient of the Site.
Further information can be found in the Consolidated DSI report (Senversa, 2017a). *1: Department of Economic Development, Jobs, Transport and Resources.* *2: Corangamite Catchment Management Authority.*	

2.2 Conceptual Site Model

The Conceptual Site Model (CSM) for the Site is provided in Appendix C of the PMAP (Department of Defence, 2018c) to identify major/minor sources, migration pathways, exposure routes and receptors (current and future).

The CSM was based on numerous PFAS investigations, including:

- Coffey (2016a), *Environmental Assessment for Perfluorinated Compounds in Proposed Fuel Tank Farm Project, RAAF Base East Sale*.
- Coffey (2016b), *Additional Environmental Assessment for Perfluorinated Compounds in Fuel Tank Farm area, RAAF Base East Sale*.
- Senversa (2016), Preliminary Site Investigation: *RAAF Base East Sale Per- and Poly-fluoroalkyl Substances (PFAS) Investigations,* 10 October 2016;
- Jacobs (2017), *Soil Re-use assessment – RAAF East Sale AIR 5428 Pilot System Training Facilities Project*.
- Senversa (2017a), *Detailed Site Investigation: RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations*, 7 June 2017.
- Senversa (2017b), *Interim Human Health and Ecological Risk Assessment*, 5 December 2017.
- Senversa (2018b), *RAAF Base East Sale Human Health and Ecological Risk Assessment (HHERA)*, August 2018.
- ADE Consulting Group (2019), *Environmental Site Assessment (ESA) Report – P0007 Airfield Maintenance Project, RAAF East Sale, VIC*.
- Cardno (2021), *PFAS OMP Annual Interpretive Report, Nov/Dec 2019, Mar 2020, June 2020 & Nov 2020 Sampling Events, RAAF Base East Sale*, 12 November 2021.

2.2.1 Source Areas

Previous investigations identified Source Areas where PFAS has been detected in groundwater, surface water or sediment at concentrations exceeding the adopted assessment levels. These Source Areas include the following:

- North-west Area – fire truck maintenance areas, AFFF storage, fuelling area (Source IDs 01, 02 and 03) within the Mechanical Equipment Operations and Maintenance Section (MEOMS), former fire station (Source ID 04) and chemical storage area (Source ID 05).
- Central/Eastern Area – current fire station (Source ID 06) and grassed area near runway (Source ID 16).
- Southern Area – former fire training areas (Source ID 08 and 09) and waste burial areas (Source ID 07).
- Central Area – AFFF Foam and Equipment Testing Area (Source ID 11)

The most significant Source Areas, Group 1 Source Areas, involve repeated application of foams and concentrate to the ground and provide a high risk of impact to environmental media on the Site and Site surroundings. Group 2 Source Areas provide a high to medium risk of impact to environmental media, but at

less frequent rates of application. These Source Areas are shown in Figure 2, Appendix A (does not include one-off releases).

Group 1 consists of the following Source IDs:

- Source ID 01 – MEOMS – Waste disposal
- Source ID 02 – MEOMS – Operations Areas
- Source ID 03 – MEOMS – Fire Truck Hose Testing
- Source ID 04 – Former Fire Station
- Source ID 05 – Chemical Storage Area
- Source ID 06 – Current Fire Station
- Source ID 07 – Former Waste Burial Area (south)
- Source ID 08, 09 and 10 – Former Fire Training Areas
- Source ID 11 – AFFF Testing Area

Group 2 consists of the following Source IDs:

- Source ID 12 – 4WD Training Track
- Source ID 13 – Current Fire Training and Former Sewage Treatment
- Source ID 14 – Grassed Area near MEOMS
- Source ID 15 – Grassed Area near Fire Station
- Source ID 16 – Grassed Area near runways
- Source ID 17 – Stormwater drains
- Source ID 18 – Revetments
- Source ID 19 – Former Refuelling Area

A new Group 2 Source Area (Source ID 27) was identified as a result of two accidental AFFF releases that occurred in late 2021 and late 2022. One significant increase in reported concentrations was noted at a downstream location. However, the overall impact of this new source area to the risk profile is minimal as a one-off application/release.

Areas of soil contamination that exceeded residential human health screening levels were limited to identified on-Site source areas, which are not used for residential purposes. Given the reported concentrations of PFAS in soil and grass, and the nature and behaviour of PFAS in the environment, there is the potential for risk to aquatic ecosystems off-Site. Concrete sampling of demolition waste identified low total and leachable PFAS, indicating potential for impacts to land or water if not managed appropriately.

On-Site PFAS concentrations were reported above the limit of reporting in the majority of on-Site groundwater monitoring wells, with the highest concentrations appearing in shallow groundwater in or near identified source areas. Two off-Site publicly available monitoring wells recorded detectable PFAS, at concentrations exceeding adopted drinking water screening criteria, indicating that PFAS migration off-Site has occurred.

Drainage channel sampling identified detectable concentrations of PFAS. The highest concentrations were reported close to identified source areas. Off-Site, low PFAS concentrations were reported in most surface water samples but were generally below the adopted recreational use screening criteria.

2.2.2 Migration Pathways

The key migration pathways of PFAS off the Site is via surface water within the on-Site surface water drainage network, which flows primarily into the Heart Morass and then Latrobe River.

2.2.3 Exposure Pathways

Key potential and existing exposure pathways, which have been identified in the HHERA (Senversa, 2018b) to represent a potentially elevated risk, include:

- Home consumption of fish (including eels) caught recreationally from the Heart Morass.

- Home consumption of eels and carp caught recreationally from the Latrobe River (high consumption rates only).
- Public consumption of consumption of commercially caught fish (including eels) from The Heart Morass (in the area of the Eastern Main Drain Outlet only).
- Home consumption of ducks recreationally hunted from The Heart Morass.
- Exposure of aquatic ecological receptors in surface waters, and to higher order predators consuming these biota.
- Home consumption of meat, milk or offal from livestock raised on-Site into which PFAS has bioaccumulated.

2.2.4 Receptors

Potential current and future receptors on-Site include Defence military personal, personnel residing in accommodation on-Site, contractors and visitors, and workers and children at the childcare facility.

Offsite potential and existing current and future receptors include residents, commercial workers, recreational users, livestock, and ecological receptors (birds, reptiles, insects, semi-aquatic and aquatic biota) in the Heart Morass.

3 Data Quality Objectives

This SAQP has been developed based on a set of Data Quality Objectives (DQO) in reference to the DQO presented in the OMP (Senversa, 2023), and based on guidance presented in the US Environmental Protections Agency (USEPA, 2006), and NEPM 2013 (Schedule B2). The DQO process comprises the following seven steps:

- Step 1: State the problem
- Step 2: Identify the Decision
- Step 3: Identify the Information Inputs
- Step 4: Define the Boundaries of the Study
- Step 5: Develop the Analytical Approach
- Step 6: Specify Performance or Acceptance Criteria
- Step 7: Develop the Plan for Obtaining the Data

The DQOs are detailed in Table 3-1.

Table 3-1 Data Quality Objectives

Data Quality Step	Description
State the Problem	The DSI (Senversa, 2017a) identified PFAS in groundwater, surface water and sediment within the Monitoring Area at concentrations exceeding the relevant assessment levels. Elevated concentrations of PFAS have been reported in groundwater, surface water and sediment migrating from the Site towards The Heart Morass. These elevated concentrations are not considered to pose a significant risk to human health from recreational direct contact, however, are contributing to a potentially elevated risk for ecosystem receptors and the consumption of ducks or fish by humans. Further, the concentration trends in surface water, sediment and groundwater are not well understood based on the available monitoring data.
Identify the Decision	This OMP is to monitor the nature and extent of PFAS impacts, and identify trends and changes to PFAS impacts in the environment on and offsite that may alter the understanding or assessment of identified risks into the future.
Identify the Information Inputs	The primary inputs are considered to be: ▪ PFAS concentrations in groundwater, surface water and sediment. ▪ Groundwater standing water level (SWL) which informs the inferred groundwater flow direction within the aquifers.

Data Quality Step	Description
	Other secondary inputs include field observations and field parameters at the time of sampling, surface water levels from data loggers, and regional rainfall data.
Define the Boundaries of the Study	Ongoing monitoring will generally be undertaken at a selected number of groundwater monitoring wells within multiple groundwater aquifers (Alluvium, Haunted Hills and Boisdale), point of groundwater use locations and surface water locations at and surrounding the Site within the Management and Monitoring Areas. These locations are outlined in Sections 4.2.1, 4.3.1 and 4.4.1. Based on the current network of sampling locations, sampling will be undertaken on seven (7) of the 13 private properties within the Monitoring Area provided access agreement has been given, and on public land within the Heart Morass. Monitoring of groundwater, surface water and sediment monitoring locations will nominally be undertaken annually. Additional sampling of select locations may be required under particular circumstances, such as to confirm a previous result or due to potential changes in risk profile and will be considered on a case-by-case basis.
Develop the Analytical Approach	The analytical data will be used to assess whether Site-derived PFAS has changed in nature and extent which may alter the understanding or assessment of identified risks into the future to human and ecological receptors. Useability of the analytical data will be assessed in terms of accuracy and reliability in forming conclusions on the concentrations within the samples collected. The data quality objectives, measure and acceptance criteria to be adopted for monitoring are outlined in the SAQP, and reviewed prior to each monitoring round. It is required, as a minimum, the following types and frequency of quality control samples are collected: ▪ Field duplicates (intra laboratory and inter laboratory) samples at a rate of at least 1 in 10 (consistent with NEMP (HEPA, 2020)) for PFAS analytes. ▪ Rinsate blanks where equipment decontamination will be necessary (e.g. groundwater sampling) at a rate of one per day per set of equipment as well as field blanks to assess potential cross-contamination during sampling activities and in transit. As part of the reporting, the results of the monitoring should be used to assess trends using an appropriate statistical approach such as Mann-Kendall methods, or similar, to identify increases, declines or stabilisation of concentrations across monitoring rounds to a specified statistical confidence limit based on the amount of data collected over time. Some examples of the decisions to be made from investigation results include: ▪ If detections of PFAS are reported in field blanks or rinsate blanks, then consider if there is a potential for cross contamination between samples locations and what impact that has on conclusions of trends. ▪ If reported PFAS concentrations near the main drain outfall into the Heart Morass increase, then re-assess the PMAP management responses to consider management actions to reduce the volume of PFAS-impacted surface water entering the Heart Morass. ▪ If PFAS concentrations reported in samples collected from offsite water supplies or irrigation bores increase to levels associated with potentially unacceptable risks to human health, then assess management controls regarding groundwater use in the area, and consider further risk assessment of potential exposure pathways associated with groundwater use.
Specify Performance or Acceptance Criteria	Adopted screening criteria will be used to provide a screening level of results obtained during sampling, and assess a revision of the potential risks is required. First-time detections, new exceedances of the lowest adopted screening criteria, significant concentration changes and other potentially anomalous analytical data will be reviewed and reanalysed by the laboratory. Duplicates and triplicates (splits) will be collected at one per 10 primary samples and any relative percentage differences (RPDs) exceeding 30% will be further investigated. At the end of the 12-month monitoring period, reporting should assess trends in concentrations. This is to include development and use of a statistical based decision criteria to assess the significance of trends. Where significant trends are identified, the requirement for further monitoring, assessment and/or management (in the case of an increasing trend) or cessation of monitoring (in the case of a decreasing trend) will be assessed.
Develop the Plan for Obtaining the Data	The overarching scope and methodology is provided in the OMP, with additional details presented in this SAQP. Prior to each sampling event, the SAQP should be reviewed to

Data Quality Step	Description
	assess the appropriateness of sample locations, sampling methodologies and risk screening/assessment criteria. Details of how data will be obtained to meet the objectives of the assessment are outlined in the various sections of this SAQP, including Section 4 which outlines the sampling locations and sampling methodologies. Sampling locations are shown schematically in Appendix A. Permission to access groundwater monitoring wells located on public and private properties is to be confirmed by Defence.

An assessment of the Data Quality Indicators (DQIs) relating to both field and laboratory procedures will be undertaken with appropriate documentation provided for each environmental element or media assessed. The DQIs adopted are summarised in Table 3-2.

Table 3-2 Data Quality Indicators

Data Quality Indicator	Detail
QA Documentation	Provision of appropriate work plans, DQI and DQO defined for the Site and all QA/QC aspects documented.
Bias	A measure of the potential distortion in an analysis which can result in errors in one direction (e.g. one laboratory consistently higher results or consistent poor spiked matrix recovery). Bias will be assessed with reference to the analysis of spiked matrix samples (NEPC 1999b).
Representativeness	A qualitative measure of the confidence that data is representative of each medium present on the Site. Use of appropriate and documented sampling methods, sampling handling, preservation and transport and holding times.
Precision:	A quantitative measure of data variability or reproducibility, measured by the calculation of %RPD values for duplicate samples (i.e. measure of agreement). Precision in DQI can be measured as follows: • Percentage of the mean of the measurement such as Relative Percent Difference (i.e. %RPD). The %RPD will be calculated for the field and secondary duplicate (i.e. inter and intra-laboratory analysis); and • Use of similar analytical method and instrument (e.g. for inter-laboratory assessment). The %RPD will be considered as acceptable if the values are less than 30% (NEPC, 2013). Should there be a result that is greater than 30% difference, then a "review should be conducted of the cause (e.g. instrument calibration, appropriateness of method used)" (NEPC, 2013). Laboratory analysis of intra- and inter-laboratory samples (1 per 10 samples collected) to be collected.
Accuracy	A quantitative measure of the closeness of data to a 'true value', measured by the analysis of spike, blank and laboratory control samples (LCS). The LCS consists of a standard reference material or a matrix of known concentration. For the purpose of assessing accuracy it is required that at least one LCS for each process batch[1] be analysed (NEPC, 2013).
Comparability	A qualitative measure of the confidence that data may be considered to be equivalent for each sampling and analytical event. By use of standard procedures, comparable methods, qualified personnel and review of sample integrity. When all results have been received, Cardno will undertake a full review of the data for any anomalies in consideration of historical data at each location (where available), such as first-time detections or new exceedances being reported at locations which have not had detections or exceedances previously. If potentially anomalous data is identified or suspected, further confirmatory measures will be undertaken such as re-extraction and reanalysis of the sample by the laboratory and/or additional data quality review.
Completeness	A measure of the amount of usable data (expressed as a percentage - %) from a data collection activity, based on completeness of test program, overall QA/QC completeness and validity of data set.
Notes:	

Data Quality Indicator	Detail
1.	The NEPM Schedule B3 – Guideline on Laboratory Analysis of Potentially Contaminated Soil defines a laboratory process batch to consist of up to "20 samples that are similar in term of matrix and test procedure, and are processed as one unit for the QC purposes" (NEPC, 2013).

4 Sampling Location Rationale and Methodology

The Site setting and environmental context should be considered when identifying ideal sampling periods when there is little statistical difference when comparing sampling results. November has the highest average rainfall and the greatest tendency for larger rainfall events to occur. As seasonality has little effect on groundwater, surface water and sediment results, sampling during this period (Q4) would be advantageous for surface water sampling as there would be a higher change of sampling recently generated surface water from a rainfall event (Senversa, 2023). Further, it is recommended that all sampling be completed at the same time to generate a 'snap shot' of conditions within all three media.

4.1 Monitoring Schedule

The proposed monitoring intervals for groundwater, surface water and sediment as outlined in the OMP (Senversa, 2023) are as follows:

Media	Locations	Frequency	Rationale
Groundwater	All	Annual ▪ October to December (Q4)	Seasonality appears to have little effect on PFAS concentrations within groundwater.
Surface Water	All	Annual ▪ October to December (Q4)	Seasonality appears to have little effect on PFAS concentrations within surface water collected on-Site. However, it appears that seasonal flooding of the Heart Morass may influence surface water concentrations by reducing them due to dilution. However, it is considered to be statistically non-significant.
Sediment	All	Annual ▪ October to December (Q4)	There was little difference in PFAS concentrations between sampling periods. Seasonality appears to have little effect on PFAS concentrations. There are no significantly consistent findings.

4.2 Groundwater Monitoring

4.2.1 Groundwater Monitoring Network

The network of on- and off-Site groundwater monitoring wells included in the OMP for sampling are summarised in Table 4-1 with justification and shown in Figures 3 and 4, Appendix A.

Table 4-1 RAAF Base East Sale Groundwater Monitoring Network

Target Area	Aquifer	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site Locations				
On-Site, North-west Area	Upper Alluvium	MW306, MW315, MW326, MW607, MW609, MW610, MW612, MW724, MW725, MW726, MW728, MW733, MW734	13	Locations target groundwater within and downgradient of: ▪ Source ID 1 (MEOMS – Waste Disposal), ▪ Source ID 2 (MEOMS – Operational Areas), ▪ Source ID 3 (MEOMS – Fire Truck Hose Testing) ▪ Source ID 4 (Former Fire Station)

Target Area	Aquifer	Monitoring Location	Total Number of Monitoring Locations	Justification
				▪ Source ID 5(Chemical Storage Area) ▪ Source ID 14 (Grassed Area near MEOMS)
	Haunted Hills	MW737	1	Location targets groundwater within and downgradient of: ▪ Source ID 2 (MEOMS – Operational Areas)
On-Site, Central Area	Upper Alluvium	MW636, MW707, MW712, MW714, MW716, MW730, MW738	7	Locations target groundwater within: ▪ Source ID 13 (Current Fire Training and Former Sewage Treatment) Locations target groundwater downgradient of: ▪ Source ID 7 (Former Waste Burial Area-south) ▪ Source ID 8 & 9 (Former Fire Training Areas) ▪ Source ID 12 (4WD Training Track)
	Haunted Hills	MW729	1	Location targets groundwater within and downgradient of: ▪ Source ID 11 (AFFF Testing Area)
On-Site, Central/Eastern Area	Upper Alluvium	MW719, MW720	2	Locations target groundwater within and downgradient of: ▪ Source ID 6 (Current Fire Station) ▪ Source ID 16 (Grassed area near runways)
On-Site, Southern Area	Upper Alluvium	MW201, MW202, MW616, MW617, MW622, MW623, MW626, MW627, MW628, MW702, MW708, MW709, MW711, MW715, MW735	15	Locations target groundwater within and downgradient of: ▪ Source ID 7 (Former Waste Burial Area (south) ▪ Source ID 8 & 9 (Former Fire Training Areas) ▪ Source ID 12 (4WD Training Track)
	Lower Alluvium	MW323, MW324, MW701, MW704, MW739, MW740, MW741	7	
	Haunted Hills	MW705	1	Locations target groundwater within: ▪ Source ID 7 (Former Waste Burial Area-south)
On-Site, South-west Area	Upper Alluvium	MW325, MW603	2	Locations target groundwater within and downgradient of: ▪ Source ID 13 (Current Fire Training and Former Sewage Treatment)
Off-Site Locations				
Off-Site Monitoring Wells	Upper Alluvium	MW015, MW304, MW316	3	Location targets off-Site areas, including private properties downgradient of the Site.
	Lower Alluvium	MW008, MW010, MW016, MW310, MW318	5	
	Haunted Hills	MW009, MW312, MW321	3	
	Boisdale	MW014	1	
	Point of Use	MW302, MW319, POT027, POT034,	7	

Target Area	Aquifer	Monitoring Location	Total Number of Monitoring Locations	Justification
		POT042, POT050, POT051		

Implementation of the monitoring plan has identified a number of necessary changes to the groundwater monitoring network specified in the OMP, with rationale for these changes presented in the OMP Review Report (Senversa, 2022). Changes to the OMP groundwater monitoring network are outlined in Table 4-2.

Table 4-2 Changes to Groundwater Monitoring Network

Monitoring Location	Total Number of Monitoring Locations
Removed from Monitoring Network	
MW203, MW320, MW615, MW618, MW619, MW620, MW624, MW625, MW629, MW703, MW713, MW718, MW722	13
Added to Monitoring Network	
MW315	1

4.2.2 Groundwater Sampling Methodology

Groundwater monitoring will be undertaken by no purge HydraSleeve® method as detailed in Table 4-3. HDPE HydraSleeves® suitable for PFAS sampling will be used.

Table 4-3 Groundwater Monitoring Wells – Sampling Method

Activity	Details
Well Gauging	Standing Water Level (SWL) will be gauged using either an interface probe or a water level meter. A consolidated groundwater gauging event for the wells to be monitored in the annual event will be undertaken at the commencement of each monitoring event to the extent practicable. All wells will be measured against a specified mark at the top of the well casing.
Groundwater Water Quality Parameter Field Measurements	Groundwater water quality parameter field measurements (field parameters) will be recorded with a water quality meter before sample collection (with the sample in a sterilised jar) prior to deployment of the HydraSleeve®, or using extra sample water from within the HydraSleeve® decanted into a sterilised jar if the HydraSleeve® is already deployed. The following field parameters will be recorded using a water quality meter: ▪ pH. ▪ electrical conductivity (EC). ▪ oxidation reduction potential (ORP). ▪ Dissolved oxygen (DO). ▪ Temperature. All field instruments (e.g. water quality meter) will be calibrated prior to field events to optimise the accuracy of the measurements taken. The water quality meter will be bump tested daily and re-calibrated as required.
Deployment of HydraSleeve®	HydraSleeves® will be deployed to the base of wells, or a minimum of 2.5 m within the screen interval. A top weight will be utilised if water depth of screen require compression of the HydraSleeve®. Used HydraSleeves® will be replaced with a new HydraSleeve® after sample collection at each location. Well construction details, including screen intervals, are presented in Appendix C.
Retrieval of HydraSleeves® (Sample Collection)	HydraSleeve® sampling devices will be left in wells for a minimum of 4 hours when deployed with bottom weights only, to allow restabilisation of the well following the slight disturbance caused by sampler deployment. For wells with a shallow water column (nominally less than 2.5 m in height, although depends on the length of the HydraSleeve®), HydraSleeve® sampling devices will be

Activity	Details
	deployed with both top and bottom weights, and will be left in the well for a minimum of 24 hours. This is to allow the top weight time to compress the HydraSleeve into the bottom of the well and restabilisation of the well following the slight disturbance caused by sampler deployment. Samples will be collected via continuous pull method at a rate of approximately 30 cm per second, allowing the water to pass through the check value into the sample sleeve. Samples will be discharged immediately (minimise changes in chemistry) via discharge tube.
Sample collection by bailer	Where insufficient water is retrieved with the HydraSleeve®, samples will be collected by bailer. Wells will be purged 3 bore volumes, or until dry, whichever is sooner, prior to sample collection.
Sample collection from fully encased wells	Some private property wells are fully encased and do not allow direct access to deploy a HydraSleeve® or bailer. Water from these wells is extracted by mechanically powered pumps and sample collection is completed from a designated tap or outlet. Prior to sampling, the pump is allowed to run for at least one minute to purge stagnant water within the well and associated piping.
Sample identification, preservation transport and holding times	Each sample will be labelled with the sample location, date, project identification number and sampler's initials. Sample labelling and naming will be in accordance with Annex L of the Defence Contamination Management Manual (DCMM). Samples will be collected directly in into appropriately preserved laboratory supplied bottles (Teflon-free) and packed in chilled containers for delivery to the laboratory under Chain of Custody (COC) documentation. Sample containers, preservation procedures, sample storage requirements and holding times will be undertaken in accordance with the requirements set out in Australian Standard AS/NZS 5567.1:1998 and AS 4482.1.
Field Records	Field records will include the following information: ▪ Sampling time, date and name of the sampler. ▪ Weather conditions. ▪ Sample collection method. ▪ Sampling equipment decontamination procedures where non-disposable sampling equipment is utilised. ▪ Calibration and bump test records. All sample documentation including field notebooks, reporting records, COC and equipment calibration certificates and procedures will be retained within project files.
Decontamination	Used HydraSleeves® will be replaced with a new HydraSleeve® after sample collection at each location, thus removing the need for decontamination. All re-usable sampling equipment (such as the interface probe) will be thoroughly washed using phosphate-free and "PFAS-free" detergent (Liquinox), then double rinsed with clean water before the sample collection.
Waste Management	All liquid wastes generated from the OMP activities will be temporarily stored on-Site (in an agreed location as approved by Base) within either a drum or an Intermediate Bulk Container (IBC) and disposed of Offsite to a licensed facility. Disposal of the liquid waste is anticipated to occur once the drum(s) or container(s) are full, or as required. Any general solid waste generated during the sampling event will be disposed of either Offsite or in appropriate bins Onsite, as approved by Base Support.
Laboratory Testing	All groundwater samples will be analysed for the full PFAS analytical suite (see Appendix B). The laboratory Limit of Reporting (LOR) for groundwater, PFAS – Full Suite – 28 Analytes, is 0.01-0.1 µg/L.
Laboratory Testing – Quality Control	Groundwater QC samples will be collected at the following frequencies, as detailed in the OMP (Senversa, 2023): ▪ Field duplicate (intra-laboratory) samples at 1 per 10 water samples or 1 per batch if the batch is less than 10 samples. ▪ Field triplicate (inter-laboratory) samples at 1 per 10 water samples should be sent to a secondary laboratory. ▪ Rinsate blank sample at 1 per day [collected off re-used monitoring equipment (e.g. interface probe)]. ▪ Field blank sample at 1 per day.

Activity	Details
	▪ Trip blank samples of 1 per shipment to be included in the chilled sample containers upon transport to the laboratory. All QC samples will be tested for a full PFAS analytical suite (see Appendix B).
Laboratory Accreditation	All groundwater analysis will be undertaken by laboratories accredited by the NATA. ▪ Primary analysis will be undertaken by ALS Global Laboratories. ▪ Secondary analysis will be undertaken by Eurofins-mgt.

4.3 Surface Water Monitoring

4.3.1 Surface Water Monitoring Network

The surface water locations to be sampled as part of the OMP are presented in Figures 5 and 6 (Appendix A) and are summarised in Table 4-4.

Implementation of the monitoring plan has identified necessary changes to the surface water monitoring network specified in the OMP (Senversa, 2023), with rationale for these changes presented in the OMP Review Report (Senversa, 2022).

Table 4-4 OMP Surface Water Monitoring Locations and Frequency

Target Area	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site Locations			
On-Site, Drain Discharging Offsite (North-west Corner of Site)	SW201	1	Location targets surface water downstream of Source ID 1 (MEOMS – Waste Disposal) and Source ID 14 (Grassed Area near MEOMS)
On-Site, Western Drainage Network	SW203, SW206, SW208, SW217, SW222, SW223, SW226, SW227, SW230, SW242, SW246, SW252, SW351, SW353, SW366	15	Locations target surface water within and downstream of the Western Drainage Network
On-Site, Eastern Drainage Network	SW209, SW216, SW231, SW233, SW238, SW239, SW251, SW256, SW257, SW258,	10	Locations target surface water within and downstream of the Eastern Drainage Network
Off-Site Locations			
Off-Site, Off-Site Drain (North-west Corner of Site)	SW049	1	Location targets surface water flowing into the north irrigation channels, ultimately flowing into Lake Wellington
Off-Site, Inflow to Heart Morass	SW001, SW002, SW033	3	Locations target surface water within and downstream of the source area, discharging into the Heart Morass
Off-Site, Heart Morass Monitoring Area	SW004, SW011, SW014, SW015, SW016, SW019, SW030, SW031, SW032, SW034, SW035, SW041, SW052, SW082, SW088, SW089, SW092, SW277	18	Locations target surface water within the Heart Morass
Off-Site, Flooding Creek	SW077	1	Location targets surface water within the Flooding Creek
Off-Site, Latrobe River	SW012, SW080, SW093	3	Locations target surface water within the Latrobe River

Implementation of the monitoring plan has identified a number of necessary changes to the surface water monitoring network specified in the OMP (Senversa, 2023). Changes to the OMP surface water monitoring network are outlined in Table 4-5.

Table 4-5 Changes to Surface Water Monitoring Network

Monitoring Location	Total Number of Monitoring Locations
Removed from Monitoring Network	
SW224, SW228, SW232, SW235, SW237, SW247, SW248, SW249, SW250, SW259, SW260	11
Added to Monitoring Network	
SW351, SW366	2

4.3.2 Surface Water Level Gauging

In addition to the collection of surface water samples, gauging of surface water levels at selected monitoring points will also be undertaken to monitor the interactions between groundwater and surface water, as suggested in the DSI (Senversa, 2017a). Key surface water monitoring points have been established as part of implementing the PMAP to assist in the understanding of surface water and groundwater interaction. Data from these points should be incorporated into the OMP to assist with improving the CSM. Data loggers have been installed at the monitoring points listed in Table 4-6 and set to a logging frequency of once every 30 minutes.

Table 4-6 Data Logger Monitoring Network

Catchment	Data Logger ID	Monitoring Location
On-Site Eastern Drainage Network	DL02	SW345
	DL03	SW346
	DL04	SW238
	DL06	SW257
	DL07	SW329
	DL08	SW259
On-Site Western Drainage Network	DL09	Retention Basin in Western Drain
	DL10	SW246
	DL11	SW230
	DL13	MW714
On-Site Eastern Drainage Network	DL14	MW702
	DL15	MW701
On-Site Western Drainage Network	DL16	SW208
	DL17	SW343
	DL18	SW226

On-Site Eastern Drainage Network	DL19	SW239
	APWS-SW251	SW251
	APSW-SW351	SW351

In addition to the data collection with data loggers, gauging of surface water levels at monitoring points along the Eastern Main Drain will also be undertaken to monitor the interactions between groundwater and surface water. Water levels measured during the DSI (Senversa, 2017a) suggested interaction between the Eastern Drain and groundwater wells MW629, MW708 and MW735. Surface water and drainage invert levels were above the groundwater standing water levels measured across all other monitoring locations (Senversa, 2017a).

Gauging of nearby groundwater monitoring wells are proposed to be undertaken at the same time as surface water level gauging to provide a representative assessment of groundwater-surface water interactions. Table 4-7 presents the surface water gauging locations in the Eastern Drain and adjacent groundwater monitoring wells.

Table 4-7 Locations for Gauging Groundwater-Surface Water Interactions

Surface Water Gauging Location	Adjacent Groundwater Monitoring Wells	Justification
SW235 and SW237	MW718	Assess interaction between surface water in the Eastern Drain and shallow groundwater in nearby well MW718.
SW251, SW257, SW258, SW259 and SW260	MW625, MW626, MW629, MW702, MW708 and MW735	Assess interaction between surface water in the Eastern Drain and shallow groundwater in nearby wells MW625, MW626, MW629, MW702, MW708 and MW735.

Data on relative water levels and environmental flows (stream discharge) of the Latrobe River will be obtained from the Water Measurement Information System (https://data.water.vic.gov.au/static.htm; DEWLP, 2021) based on the monitoring station at Swing Bridge (located approximately 1.5 km west of SW080) in order to understand a range of seasonal/temporal scenarios that may impact surface water PFAS concentrations.

4.3.3 Surface Water Sampling Methodology

The methodology for the surface water monitoring is detailed in Table 4-8.

Table 4-8 Surface Water Monitoring Locations – Sampling Method

Item	Details
Water Level Gauging	Water level gauging will be performed at select surface water locations, as outlined in Table 4-7 above. Water level gauging will involve the measurement of the water level against surveyed reference marks with a known elevation in the Eastern Drain to determine the water level at each location.
Field parameters	Surface water physiochemical parameters (i.e. pH, electrical conductivity (EC), oxidation reduction potential (ORP), dissolved oxygen (DO), and temperature) will be recorded at the time of sampling using a pre-calibrated water quality meter. The water quality meter will be bump tested daily and re-calibrated as required. Field observations such as colour, turbidity, presence of suspended solids and odours, sheen, oily film, nuisance organisms, floating debris or frothing will be recorded on field sampling sheets. The condition of the water body that was sampled from including the type (lake, stream etc.) and channel width will also be recorded as applicable. Flow rate will also be quantitatively recorded where possible using the float method, with qualitative flow rates to be recorded where quantitative measurements are unable to be taken by field staff (such as when environmental conditions significantly limit visibility or there are access constraints).

Item	Details
Sampling Method	Where possible, surface water samples will be collected directly into laboratory supplied sample containers using a 'Grab' (manual) sample method via a long-handled sampling device. The sample container is secured to the end of the sampling device and is then lowered into the water, oriented with the capped opening facing downwards to avoid the collection of surface films. Where depth permits, the sample container should be positioned at least 10 cm below the surface water level and above the sediment bed before reorienting the sample container so that the capped opening is facing upwards, allowing it to fill. Samples will be collected in accordance with Australian/New Zealand Standards (AS/NZS 5667.1:1998) '*Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*'.
Sample Collection	Water samples will be placed directly into appropriately labelled, laboratory supplied sample bottles and packed in chilled containers for delivery to the laboratory under COC documentation. Sample containers will include water resistant labels attached to the sample bottles.
Sample identification, preservation, transport and holding times.	Each sample will be labelled with the sample location, date, project identification number and sampler's initials. Sample labelling and naming will be in accordance with Annex L of the DCMM. Samples will be contained in appropriately preserved laboratory supplied bottles (Teflon-free) and packed in chilled containers for delivery to the laboratory under COC documentation. Sample containers, preservation procedures, sample storage requirements and holding times will comply with the requirements set out in "Australian Standard AS/NZS 5567.1:1998 and AS 4482.1".
Field Records	Field records will include the following information: ▪ Sampling time, date and name of the sampler. ▪ Weather conditions. ▪ Sample collection method. ▪ Sampling equipment decontamination procedures where non-disposable sampling equipment is utilised. ▪ Calibration records. All sample documentation including field notebooks, reporting records, COC and equipment calibration certificates and procedures will be retained within project files.
Decontamination	All re-usable sampling equipment (such as the long-handled sampling device) will be thoroughly washed using phosphate-free and "PFAS-free" detergent (Liquinox), then double rinsed with de-ionised water before the sample collection.
Laboratory Testing	All surface water samples will be analysed for the full PFAS analytical suite (see Appendix B). The LOR for surface water, PFAS – Full Suite (28 Analytes), is 0.01-0.1 µg/L.
Laboratory Testing – Quality Control	Surface water QC samples will be collected at the following frequencies in accordance with the guidance in the PFAS NEMP (HEPA, 2020): ▪ Field duplicate (intra-laboratory) samples at 1 per 10 water samples or 1 per batch if the batch is less than 10 samples. ▪ Field triplicate (inter-laboratory) samples at 1 per 10 water samples to be sent to the secondary laboratory. ▪ Rinsate blank sample at 1 per day [collected off re-used sampling equipment (e.g. surface water sampler)]. If more than one rinsate blank was collected each day (e.g. because one was also collected on the same day for groundwater monitoring), then only one sample will be analysed initially, ▪ Field blank sample at 1 per day. If more than one field blank was collected each day (e.g. because one was also collected on the same day for groundwater monitoring), then only one sample will be analysed initially, ▪ Trip blank samples of 1 per shipment to be included in the chilled sample containers upon transport to the laboratory. QC samples will be tested for a full PFAS analytical suite (see Appendix B).
Laboratory Accreditation	All surface water analysis will be undertaken by the following NATA-accredited laboratories: ▪ Primary analysis will be undertaken by ALS Global Laboratories. ▪ Secondary analysis will be undertaken by Eurofins-mgt.

4.4 Sediment Monitoring

4.4.1 Sediment Monitoring Network

The sediment locations to be sampled as part of the OMP are presented in Figures 5 and 6 (Appendix A) and are summarised in Table 4-9.

Table 4-9 OMP Sediment Monitoring Locations and Frequency

Target Area	Monitoring Location	Total Number of Monitoring Locations	Justification
On-Site Locations			
On-Site, Off-Site Drain (North-west Corner of Site)	SD201	1	Location targets sediment downstream of Source ID 1 (MEOMS – Waste Disposal) and Source ID 14 (Grassed Area near MEOMS)
On-Site, Western Drainage Network	SD206, SD208, SD217 SD223, SD226, SD227, SD230, SD242, SD246	9	Locations target sediment within and downstream of the Western Drainage Network
On-Site, Eastern Drainage Network	SD209, SD216, SD231, SD233, SD239, SD247, SD249, SD251, SD256, SD257, SD258, SD259, SD260	13	Locations target sediment within and downstream of the Eastern Drainage Network
Off-Site Locations			
Off-Site, Off-Site Drain (North-west Corner of Site)	SD049	1	Location targets sediment within the north irrigation drainage channels, ultimately flowing into Lake Wellington
Off-Site, Eastern Main Drainage Outlet	SD001, SD033	2	Locations target sediment within and downstream of the Easter Main Drainage Outlets into Heart Morass
Off-Site, Heart Morass Monitoring Area	SD011, SD014, SD015, SD016, SD019, SD030, SD031, SD032, SD034, SD035, SD041, SD052, SD082, SD088, SD089, SD268, SD270, SD276	18	Locations target sediment within the Heart Morass

Implementation of the monitoring plan has identified a number of necessary changes to the sediment monitoring network specified in the OMP (Senversa, 2023). Changes to the OMP sediment monitoring network are outlined in Table 4-10.

Table 4-10 Changes to Surface Water Monitoring Network

Monitoring Location	Total Number of Monitoring Locations
Removed from Monitoring Network	
SD353	1

4.4.2 Sediment Sampling Methodology

The methodology for sediment sampling is detailed in Table 4-11.

Table 4-11 Sediment Investigation Methodology

Item	Details
Sample Collection	Sediment samples should be collected from the approximate mid-point of the flow pathway, to the extent practicable, and collected from the top ten centimetres using hand tools (e.g. sediment corer, hand auger or trowel). Sediment samples should be collected after the co-located surface water sample is collected to prevent agitating sediments into the water body and surface water sample matrix. Samples should be placed directly into appropriately labelled, laboratory supplied sample containers and packed in chilled containers for delivery to the laboratory under COC documentation. At each sampling location, the sediment sample will be visually assessed and observations (including physical description) recorded on field data sheets.
Field Records	Field records will include the following information: ▪ Sampling time, date and name of the sampler. ▪ Weather conditions. ▪ Sample Collection method. ▪ Sampling equipment decontamination procedures where non-disposable sampling equipment is utilised. All sample documentation including field notebooks, reporting records, COC and equipment calibration certificates and procedures will be retained within project files.
Decontamination	All re-usable sampling equipment (such as a trowel) will be thoroughly washed using phosphate-free and "PFAS-free" detergent (Liquinox), then double rinsed with de-ionised water before the sample collection.
Sample identification, preservation, transport and holding times.	Each sample will be labelled with the sample location, date, project identification number and sampler's initials. Sample labelling and naming will be in accordance with Annex L of the DCMM. Samples will be contained in appropriately preserved laboratory supplied bottles (Teflon-free) and packed in chilled containers for delivery to the laboratory under COC documentation. Sample containers, preservation procedures, sample storage requirements and holding times will comply with the requirements set out in "Australian Standard AS/NZS 5567.1:1998 and AS 4482.1".
Laboratory Testing	All sediment samples will be analysed for the full PFAS analytical suite (see Appendix B). The LOR for sediment, PFAS – Full Suite (28 Analytes), is 0.0002-0.001 mg/kg.
Laboratory Testing – Quality Control	Sediment QC samples will be collected at the following frequencies in accordance with the guidance in the PFAS NEMP (HEPA, 2020): ▪ Field duplicate (intra-laboratory) samples at 1 per 10 sediment samples or 1 per batch if the batch is less than 10 samples. ▪ Field triplicate (inter-laboratory) samples at 1 per 10 sediment samples to be sent to the secondary laboratory. All QC samples will be tested for a full PFAS analytical suite (see Appendix B).
Laboratory Accreditation	All sediment sample analysis will be undertaken by the following NATA-accredited laboratories: ▪ Primary analysis will be undertaken by ALS Global Laboratories. ▪ Secondary analysis will be undertaken by Eurofins-mgt.

4.5 Quality Control Contingency Measures

In the event there are any issues identified with quality control samples, such as detects being reported in a blank, Cardno will request the laboratories to undertake a detailed review of the results, and to carry out re-analysis of the sample (if necessary) to confirm the detect. In the event that the detect in a blank is confirmed, Cardno will notify Defence and include a discussion as to the potential cause or source of the detect in the blank sample, if it can be determined, in the QA/QC evaluation prepared for each factual report. The QA/QC evaluation will also include discussion of any RPD exceedances, internal laboratory quality outliers or other data quality issues which are identified during the sampling event, and whether any of these issues are considered to impact on the overall reliability and usability of the data set.

4.6 Data Management

All data collected as part of the monitoring program will be reviewed and managed in accordance with the requirements of Annex L of the DCMM (Defence, 2021b), and uploaded into Defence's Environmental Data Management Software (EDMS). Data management will include the following:

- The Defence ESdat email address (DERP.LabReports@esdat.com.au) will be included on CoCs as a laboratory report recipient;
- The laboratory Project ID and the laboratory provided ESdat files will be populated to match the Project ID setup in the Defence ESdat;
- The location code and sample naming conventions outlined in Annex L of the DCMM will be followed;
- Field data will be uploaded to Defence's EDMS; and
- Laboratory data will be uploaded to Defence's EDMS, associated QA/QC data will be reconciled, and the laboratory data will be approved.

5 Screening Criteria

5.1 Groundwater and Surface Water

The PFAS screening criteria adopted for groundwater and surface water in this SAQP, and in the OMP (Senversa, 2023), were adopted based on the guidance in PFAS NEMP (HEPA, 2020). The adopted screening criteria for groundwater and surface water are detailed in Table 5-1. Screening levels will be reviewed and updated (if deemed necessary) as part of the OMP review process.

Table 5-1 PFAS Screening Criteria for Groundwater and Surface Water

Exposure Scenario	Adopted Assessment Criteria			Guidance
	PFOS	PFHxS + PFOS	PFOA	
	µg/L			
Human Health - Surface Water Recreational	-	2[2]	10	PFAS NEMP (HEPA, 2020)
Human Health - Drinking Water Quality Guideline[1]	-	0.07[2]	0.56	PFAS NEMP (HEPA, 2020)
Ecological (99% species protection – high conservation value systems)	0.00023[3]	-	19	PFAS NEMP (HEPA, 2020)

Notes:

1. Drinking Water screening guidelines have been adopted for screening purposes for Industrial Water use, Stock Water use and Agriculture/Parks/Gardens Water use.
2. Combined PFOS and PFHxS.
3. PFOS only; The criterion of 0.00023 µg/L is lower than the laboratory level of reporting (LOR), however, the PFAS NEMP (HEPA, 2020) allows for the adoption of the laboratory LOR as a screening level rather than a quantified measurement.

5.2 Sediment

It is noted that there are currently no Australian regulatory endorsed assessment levels for risk posed to ecology or human health by PFAS in sediment.

6 Deviations from the OMP

Details of deviations from the OMP (Senversa, 2023) and the associated impacts are as follows:

Detail	Justification	Impact
MW010 incorrectly listed in the OMP under Haunted Hills formation.	MW010 is located in the Lower Alluvium aquifer. This has been confirmed with the Lead Consultant.	No impact – MW010 has previously been listed under the Lower Alluvium aquifer by Cardno in our reporting.
SW049 incorrectly listed in the OMP under group of locations that are sampled within the Heart Morass.	SW049 is located offsite and adjacent the north-west corner of the Site – it does not flow into the Heart Morass, as listed in the OMP (Senversa, 2023). Instead it flows north into an irrigation channel as per the DSI (2017a) and ultimately into Lake Wellington.	No impact – SW049 was grouped with SW201 in the most recent revision (Rev14) of the SAQP.
DL01 and DL05 incorrectly listed in the OMP as data logger monitoring locations.	DL01 and DL05 should not have been included in the revised OMP as data logger monitoring locations – this has been confirmed with the Lead Consultant.	No impact.
SD268, SD270 and SD276 incorrectly listed in the OMP as "onsite".	SD268, SD270 and SD276 are not located within the boundaries of the Site, and are instead located downstream and south of the Site on the northern edge of the Heart Morass.	Minimal impact – Will remove uncertainty during interpretation of data when reviewing concentrations results deriving from onsite to offsite receptors by categorising these locations as offsite. SD268, SD270 and SD276 have always been considered to be offsite by Cardno in our reporting.

7 Reporting

7.1 Factual Reporting

A factual report should be produced at the completion of each monitoring event that summarises the data and findings of each monitoring event. The report will be prepared in accordance with the Defence *PFAS OMP Factual Report Guidance* document (Department of Defence, 2021). Each factual report will present the findings and contain the following information:

- Introduction.
- Scope of work completed.
- Field activities undertaken and description of sampling methodologies used.
- Field observations (e.g. condition of monitoring wells, description of purged water) and water quality parameter measurements.
- Use of appropriate nomenclature of sampling locations as per Defence Contamination Management Manual (DCMM) Annex L.
- Summary of any changes to the monitoring network condition that may affect data integrity, or require rectification works, and recommendations for repair, replacement or decommissioning of a location.
- Evaluation of the applicability of adopted assessment criteria.
- Review of the suitability of the data for assessment purposes (QA/QC evaluation).
- Summary tables presenting gauged groundwater levels.
- Presentation of inferred groundwater contours and inferred groundwater flow direction in a figure.
- Summary tables of analytical results in comparison to adopted assessment criteria generated through management of data on the Defence ESdat database, and naming of sampling locations as per DCMM Annex L.
- Figures showing results in accordance with the OMP Factual Report preparation guidance.
- Laboratory reports, COC documentation, field sampling records, data validation and QA/QC details, equipment calibration certificates, bump test records and other relevant documentation.

> Any deviations from the SAQP encountered during completion of the sampling event, justification for the deviations and any impacts of these changes on the data or program.

In the event that further investigation, management and/or remediation are required, recommendations will be presented in a separate 'technical memorandum'.

It is noted that projects are active and laboratory data is to be received by the Defence ESdat Web Interface at the time of laboratory reporting to the consultant (Department of Defence, 2019b). The data are live and location data will be uploaded and reconciled as received.

7.2 Interpretive Reporting

Upon completion of each year's monitoring period, an Ongoing Monitoring Interpretive Report (OMIR) will be prepared. The report will be prepared in accordance with the Defence *PFAS OMP Annual Interpretive Report Guidance* document (Department of Defence, 2022). As a minimum, each interpretive report should include the following:

> The factual information described in Section 7.1.

> Evidence of compliance with the requirements of the SAQP and meeting stated objectives of the OMP.

> Relevant figures depicting sampling locations and site-specific hydrogeological features.

> Use of appropriate nomenclature of sampling locations as per DCMM Annex L.

> Laboratory results and analysis including comparison with relevant screening criteria as identified in each OMP; data to be managed through the Defence ESdat database, and naming of sampling locations as per DCMM Annex L.

> Assessment and commentary on appropriate QA/QC procedures.

> A discussion of analytical results in relation to the following:

- Trends in PFAS concentrations, including an assessment of temporal changes and/or changes to the extent of PFAS impacts. Trends should be assessed using an appropriate statistical analysis approach (e.g. using Mann-Kendall or similar analysis), with a specified level of confidence based upon the number of monitoring rounds completed.
- Consideration, based on data trends, as to whether any of the existing remediation / management measures should be re-assessed, with a view to potential modification, supplementation or cessation.
- Assessment of whether changes to the CSM and/or risk assessment are required.
- Whether recalibration or changes to the groundwater model are required to provide a better understanding of the potential future extent of PFAS impact in groundwater.

> Based on the data obtained, an assessment of the OMP sampling requirements with a view to establishing whether:

- The number of locations monitored could be reduced, such as where PFAS concentrations are stable and are considered to present a low risk to receptors.
- Additional monitoring locations are required, including the installation of new monitoring wells or sampling of additional existing wells (and/or private bores) to provide better understanding of the nature, extent or magnitude of PFAS impacts in a particular portion of the Management Area.
- The frequency of monitoring should increase or decrease to provide better understanding of PFAS concentration fluctuations and potential risks to receptors.

> An overview of remedial works or construction and maintenance activities undertaken in the Management Area during the reporting period, which may impact the CSM. Defence will assist with understanding other activities occurring within the management area during the monitoring period.

> All deviations from the SAQP encountered in the previous year's monitoring will be documented, along with a statement of how these deviations impact on the DQO or overall objectives of the OMP.

> A statement as to whether the risk profile has changed overall, or at any specific location in the Management Area (Onsite and Offsite). Based on potential changes to the risk profile, recommendations would be made as to whether this should trigger an OMP and/or PMAP review, or other actions.

> The sampling event Factual Reports and SAQP for the relevant year of monitoring will be appended to the OMIR.

In addition to the OMIR, a Factsheet summarising the 12-month period of sampling and findings will be prepared to accompany the publication of the OMIR.

7.3 Provision of Results to Private Property Owners

In addition to the reporting of groundwater, surface water and sediment data collected from private properties in the factual and interpretive reports described in Section 7.1 and Section 7.2, the analytical results of private property sampling will also need to be reported to the property landowners, by way of a factual results letter. The results letters will be delivered to the property owners following Defence review and approval and include the following information, as a minimum:

> A brief description of the purpose of the OMP;

> The PFAS assessment levels relevant at the time of sampling;

> The laboratory LORs;

> The analytical results of the samples collected;

> A description of how the data will be used; and

> Contact details of the appropriate Defence representative.

In the event that the results exceed screening criteria, a follow-up consultation will be conducted with the property owner by telephone unless otherwise directed.

Note: Identifying data for private properties, such as addresses, will not be included on the Defence ESdat database. However, the groundwater, surface water, soil, and sediment data will be included in the ESdat database.

7.4 SAQP Review

Prior to each monitoring event, the SAQP will be reviewed to ensure it complies with the following guidelines:

> PFAS National Environmental Management Plan (NEMP) Version 2.0, HEPA, 2020;

> National Environment Protection (Assessment of Site Contamination) Measure (NEPM), National Environment Protection Council (NEPC), 2013;

> Department of Defence, 2016. Routine Environment Water Quality Monitoring Manual;

> Standards Australia 1998. AS/NZ 5667:1998 Water quality – sampling;

> Australian and New Zealand Guidelines, 2018. Australian and New Zealand Guidelines for Fresh and Marine Water Quality; and

> State guidelines: Environment Protection Authority (EPA) or equivalent state environmental regulators relevant guidelines e.g. Victoria's Industrial Waste Resource Guidelines (IWRG) Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication 701.

Any changes to the SAQP identified as part of the review are to be documented by way of a revision of the SAQP.

8 References

General References

1. Australian and New Zealand Guidelines (2018), Australian and New Zealand Guidelines for Fresh and Marine Water Quality.
2. Australian Standard AS 4482-2005 *Guide to the investigation and sampling of sites with potentially contaminated soils, Part 1 – Non-volatile and semi-volatile compounds.*
3. Department of Defence (2019a), *Contamination Management Manual – Annex L Guidance on Data Management*, July 2018, amended August 2019.
4. Department of Defence (2019b), *Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guidance - Routine Water Quality Monitoring*.
5. Department of Defence (2021), *PFAS OMP Factual Report Guidance*, May 2021.
6. Department of Defence (2022), P*FAS OMP Annual Interpretive Report Guidance*, Version 0.4, October 2022.
7. Department of Defence, Department of Energy (2018), Quality System Manual Schedule B15 USEPA DQO Process.
8. EPA Victoria (2009), Industrial Waste Resources Guidelines, *Sampling and Analysis of Waters, Wastewaters, Soils and Wastes*, Publication 701.
9. EPA Victoria (2020), *Interim Position Statement on PFAS*, Publication 1669.4.
10. Environmental Protection Agency (United States EPA) (2002), *Guidance on Environmental Data Verification and Data Validation*, Reference: EPA/240/R-02/004, November 2002.
11. The Heads of EPAs Australia and New Zealand (HEPA; 2020), *PFAS National Environmental Management Plan (NEMP) Version 2.0,* January 2020.
12. National Environment Protection Council (NEPC) (2013), *National Environmental Protection (Assessment of Site Contamination) Measure* (as amended), registered May 2013.
13. National Health and Medical Research Council (NHMRC) (2011 – updated 2018), *National Water Quality Management Strategy Australian Drinking Water Guidelines 6,* August 2018
14. NHMRC (2019), *Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water*, August 2019.
15. Standards Australia/Standards New Zealand (1998), AS5667.1:1998 *Water Quality – Sampling, Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*.
16. DEDJTR (Department of Economic Development, Jobs, Transport and Resources) (2015), *Victorian Resources Online West Gippsland Region,* Accessed October 2019.
17. Leonard, J. (2003), *Groundwater: Geology of Victoria Chapter 17.* In: Birch WD (ed.) Geology of Victoria. Geological Society of Australia Special Publication 23. Geological Society of Australia (Victoria Division).
18. Walker. G. and Mollica, F. (1990), *Review of the groundwater resources in the South-east Region*, Report No 54. Department of Water Resources Victoria.

Site Specific References

19. ADE Consulting Group (2019), *Environmental Site Assessment (ESA) Report – P0007 Airfield Maintenance Project, RAAF East Sale, VIC*.
20. Cardno (2022). *PFAS OMP Factual Report – Quarterly Sampling Event November 2021, Version 2, OMP_EastSale_E8_FactualReport_Rev2,* 12 February 2022.
21. Coffey (2016a), *Environmental Assessment for Perfluorinated Compounds in Proposed Fuel Tank Farm Project, RAAF Base East Sale.*
22. Coffey (2016b), *Additional Environmental Assessment for Perfluorinated Compounds in Fuel Tank Farm area, RAAF Base East Sale.*
23. Department of Defence (2018c), *RAAF Base East Sale PFAS Management Area Plan (PMAP), August 2018.*
24. Jacobs (2017), *Soil Re-use assessment – RAAF East Sale AIR 5428 Pilot System Training Facilities Project.*

25. Senversa (2016), *Preliminary Site Investigation: RAAF Base East Sale Per- and Poly-fluoroalkyl Substances (PFAS) Investigations,* 10 October 2016.
26. Senversa (2017a), *Detailed Site Investigation – RAAF Base East Sale – Per- and Poly-fluoroalkyl Substances (PFAS) Investigations,* 7 June (Final – reference M11818_119_RPT_Rev4_DSI).
27. Senversa (2017b), *Interim Human Health and Ecological Risk Assessment*, 5 December 2017 (Final).
28. Senversa (2018a), *RAAF Base East Sale PFAS Management Area Plan Ongoing Monitoring Plan,* July 2018.
29. Senversa (2018b), *RAAF Base East Sale Human Health and Ecological Risk Assessment (HHERA),* August 2018.
30. Senversa (2022), *PFAS Management Area Plan – OMP Review Report, RAAF Base East Sale*, 26 August 2022.
31. Senversa (2023), *Ongoing Monitoring Plan, PFAS Management Area Plan - RAAF Base East Sale (0937)*, 21 February 2023.

APPENDIX A

FIGURES

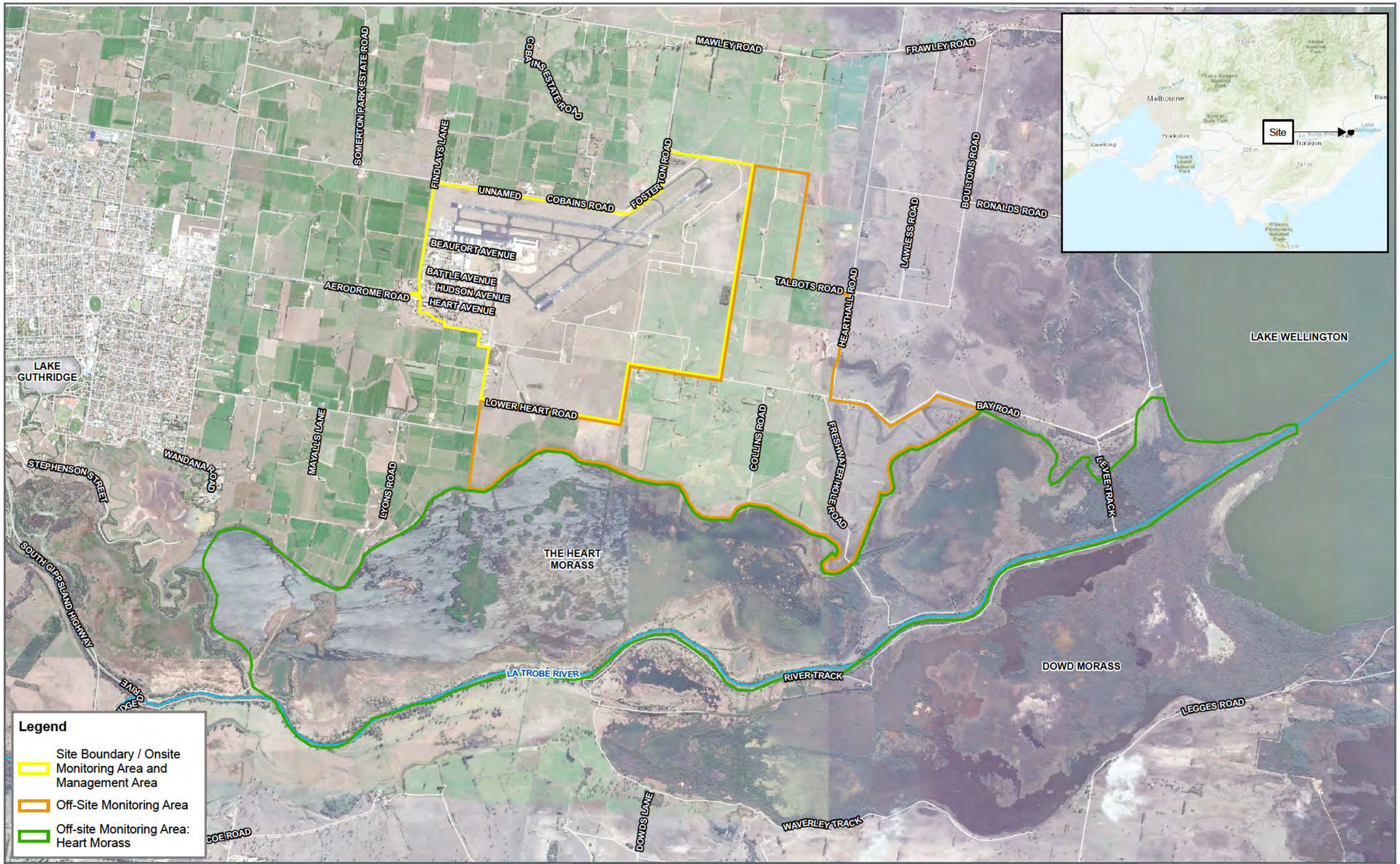


FIGURE 1A

1:40,000 Scale at A3

Metres

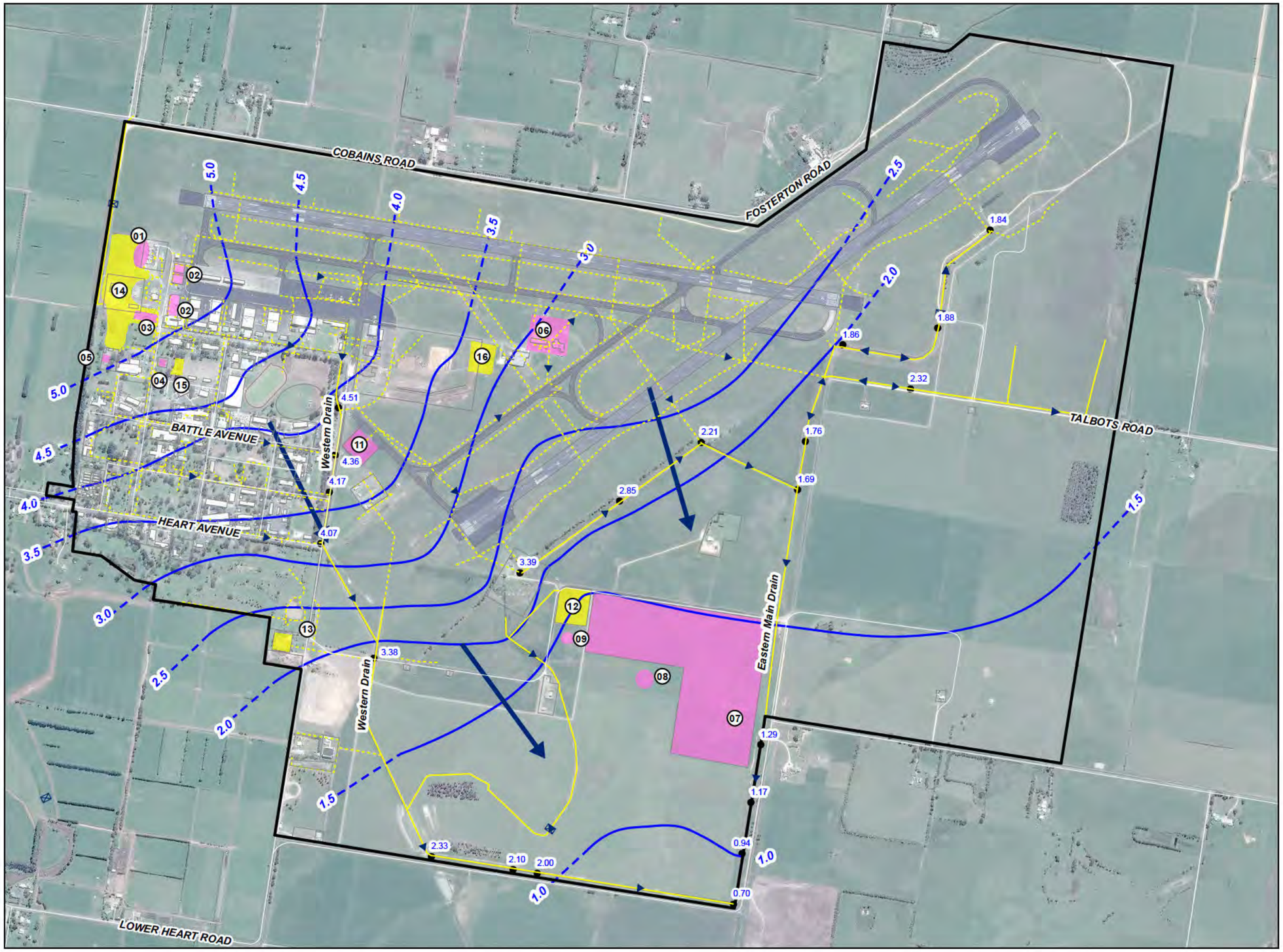
0 1,000 2,000

Site Locality Plan

ONGOING MONITORING INTERPRETIVE REPORT
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-07-27 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-005-SiteLocalityPlan_ES.mxd 10
Aerial Imagery Supplied by Google Earth (November, 2018)



Source Area Number	Name of Area
GROUP 1 SOURCES	
1	MEOMS - Waste disposal
2	MEOMS - Operational Areas
3	MEOMS - Fire Truck Hose Testing
4	Former Fire Station
5	Chemical Storage Area
6	Current Fire Station
7	Former Waste Burial Area (south)
8 9 10	Former Fire Training Areas
11	AFFF Testing Area
GROUP 2 SOURCES	
12	4WD Training Track
13	Current Fire Training Former Sewage Treatment
14	Grassed Area near MEOMS
15	Grassed Area near Fire Station
16	Grassed area near runways
17	Stormwater drains
18	Revetments
19	Former Refuelling Area

Legend

- Site Boundary
- Surface Water Migration Direction
- Current Site Features
- On-site Closed Drain
- On-site Open Drain
- Inferred Upper Alluvial Groundwater Contours
- Estimated Upper Alluvial Groundwater Contours
- Inferred Groundwater Flow Direction
- Water Level, Oct 2016 (mAHD)
  - Surveyed Surface Water Level
  - Reduced Water Level (mAHD)

Notes:
Cadastre, water and road data sourced from land.vic.gov.au (DELWP)
Aerial imagery sourced from Google Earth

0 100 200 400 600 800 Metres

Datum GDA 1994, Projection MGA Zone 55

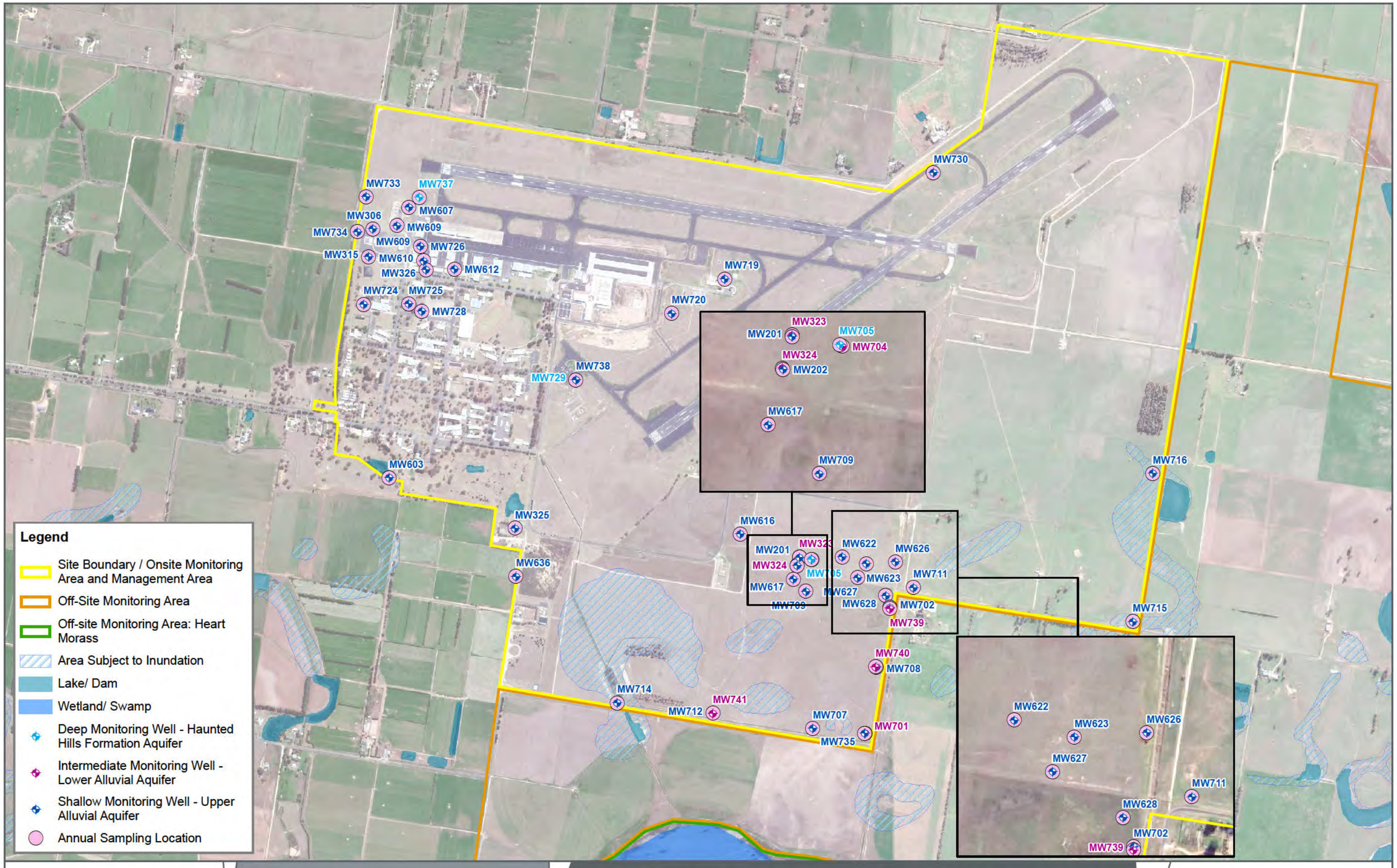
Source: Senversa, PFAS Management Area Plan (Aug, 2018)

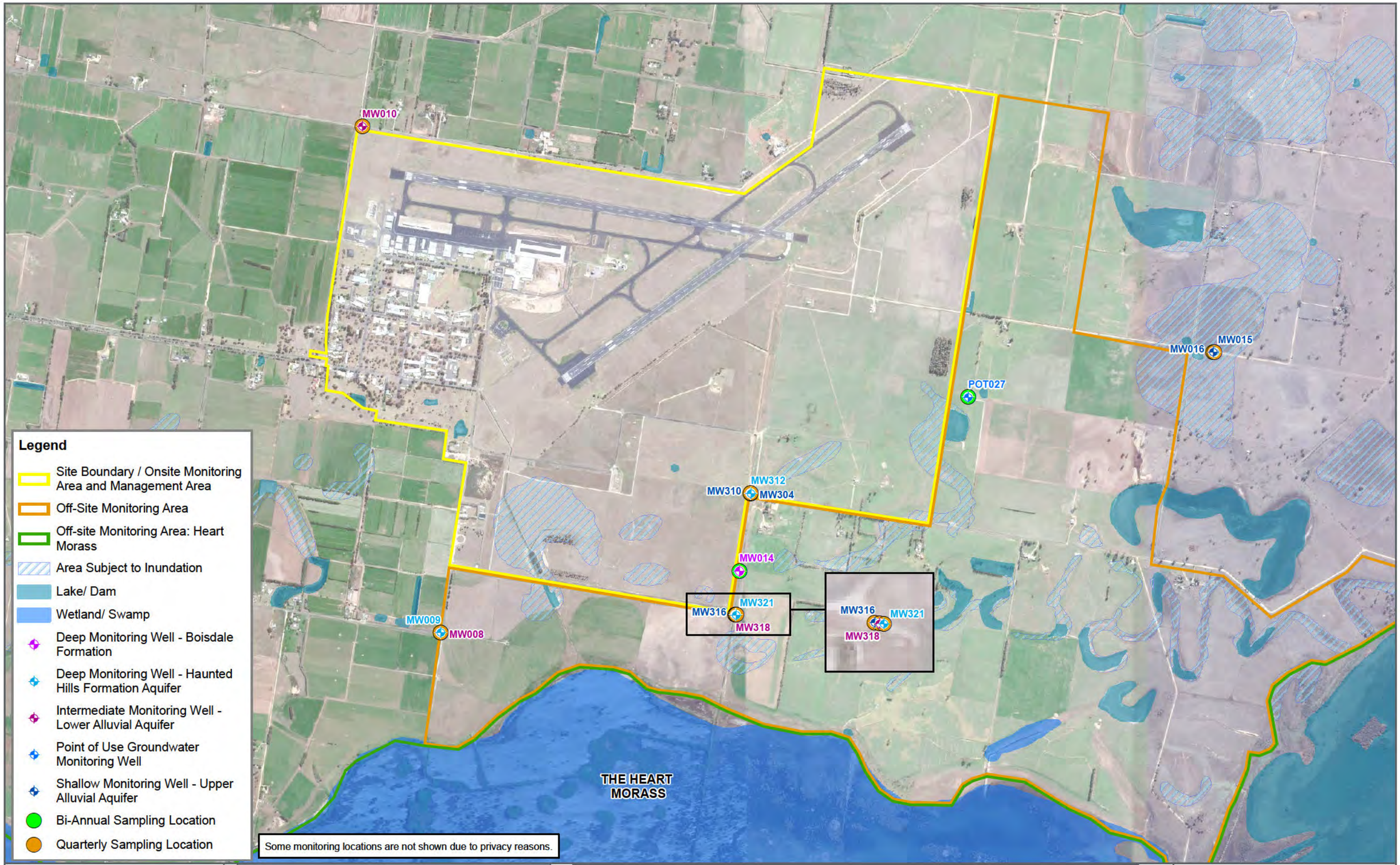
FIGURE 2
1:14,000 Scale at A3

Source Area and Migration Pathways

Cardno

Map Re-produced by Cardno
Source: Senversa, PFAS Management Area Plan (Aug, 2018)
Date: 28-10-2019 | Project: DEF9008
Map: DEF19008-AI-006-SAandMigrationPathways_ES.ai 01


MW733
MW737
MW607
MW306
MW609
MW734
MW609
MW726
MW315
MW610
MW326
MW612
MW724
MW725
MW728
MW603
MW325
MW636
MW730
MW719
MW720
MW323
MW201
MW705
MW704
MW324
MW202
MW738
MW729
MW617
MW709
MW716
MW616
MW622
MW626
MW623
MW711
MW627
MW628
MW702
MW739
MW715
MW740
MW708
MW714
MW741
MW712
MW707
MW701
MW735
Legend
Site Boundary / Onsite Monitoring Area and Management Area
Off-Site Monitoring Area
Off-site Monitoring Area: Heart Morass
Area Subject to Inundation
Lake/ Dam
Wetland/ Swamp
Deep Monitoring Well - Haunted Hills Formation Aquifer
Intermediate Monitoring Well - Lower Alluvial Aquifer
Shallow Monitoring Well - Upper Alluvial Aquifer
Annual Sampling Location
FIGURE 3
1:15,000 Scale at A3
Metres
0
500
1,000
On-site Groundwater Monitoring Network
PFAS ONGOING MONITORING PLAN
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE
N
Cardno now Stantec
Map Produced by Cardno now Stantec
Date: 2023-11-08 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-007-Onsite_GWBoreLocations_ES.mxd 04
Aerial Imagery Supplied by Google Earth (November, 2018)



Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Off-site Monitoring Area: Heart Morass
- Area Subject to Inundation
- Lake/ Dam
- Wetland/ Swamp
- Deep Monitoring Well - Boisdale Formation
- Deep Monitoring Well - Haunted Hills Formation Aquifer
- Intermediate Monitoring Well - Lower Alluvial Aquifer
- Point of Use Groundwater Monitoring Well
- Shallow Monitoring Well - Upper Alluvial Aquifer
- Bi-Annual Sampling Location
- Quarterly Sampling Location

FIGURE 4

1:20,000 Scale at A3

Metres

0 500 1,000

Off-site Groundwater Monitoring Well Locations

PFAS ONGOING MONITORING PLAN
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-11-03 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-008-Offsite_GWBoreLocations_ES.mxd 04
Aerial Imagery Supplied by Google Earth (November, 2018)

SW201
SD201
SW203
SW206
SD206
SW208
SD208
SW209
SD209
SW231
SD231
SW233
SD233
SW239
SD239
SW238
SW353
SW216
SD216
SW217
SD217
SW222
SD256
SW223
SD223
SW366
SW227
SD227
SW226
SD226
SD257
SW242
SD242
SD258
SW230
SD230
SW246
SD246
SW252
SD259
SD247
SD260
SD249
SW351
SD251

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Off-site Monitoring Area: Heart Morass
- Area Subject to Inundation
- Lake/ Dam
- Wetland/ Swamp
- Open Drain
- Main Irrigation Network
- Surface Water Migration
- Surface Water Sampling Location
- Surface Water/ Sediment Sampling Location
- Sediment Sampling Location
- Annual Sampling Location

FIGURE 5

1:15,000 Scale at A3

Metres

0 500 1,000

On-site Surface Water and Sediment Monitoring Network

PFAS ONGOING MONITORING PLAN
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-11-08 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-009-Onsite_SWBoreLocations_ES.mxd 04
Aerial Imagery Supplied by Google Earth (November, 2018)

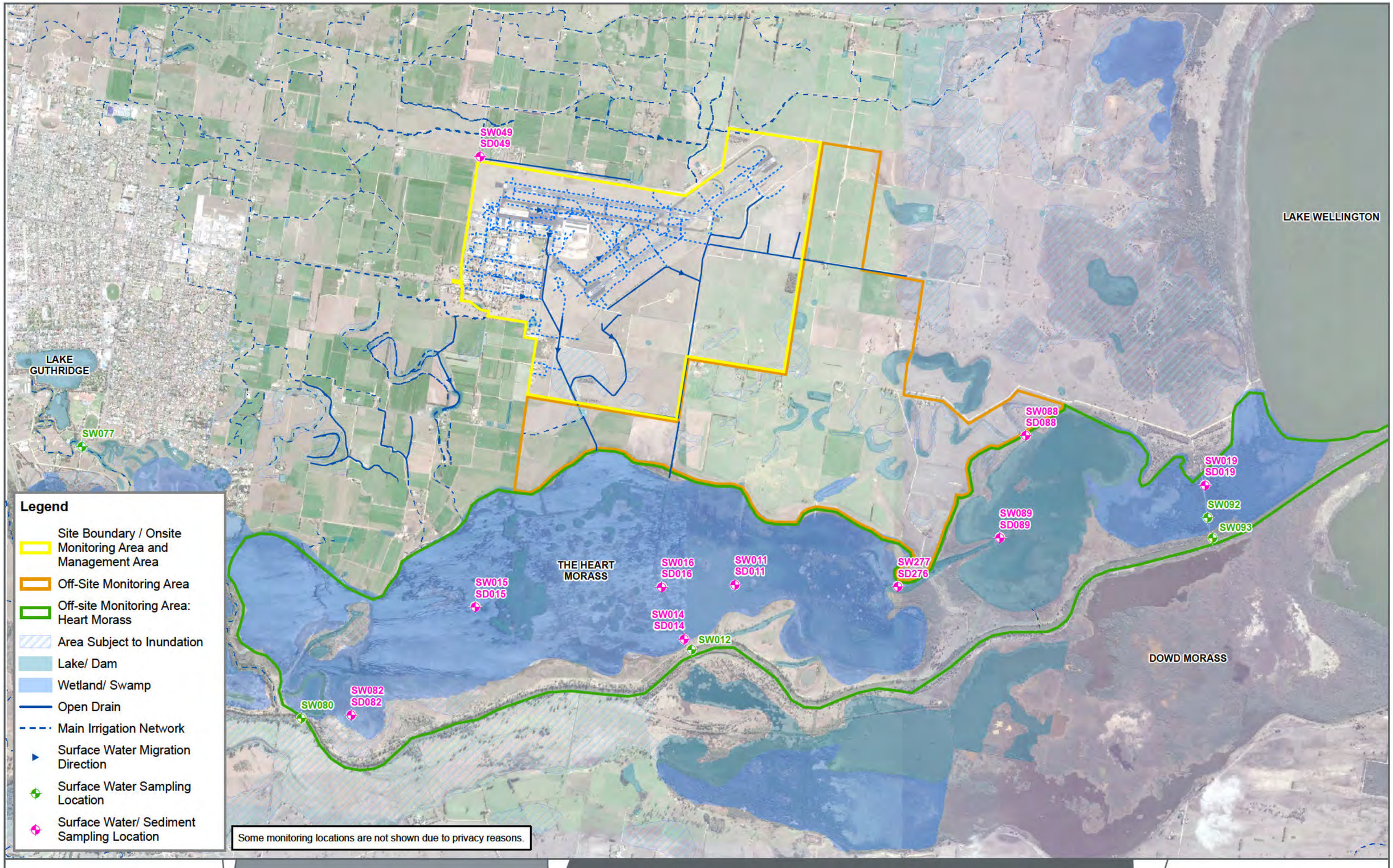


FIGURE 6

1:37,000 Scale at A3

Metres

0 1,000 2,000

Off-site Surface Water & Sediment Locations

PFAS ONGOING MONITORING PLAN
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-11-03 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-010-Offsite_SWBoreLocations_ES.mxd 05
Aerial Imagery Supplied by Google Earth (November, 2018)

MW638

MW721

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Off-site Monitoring Area: Heart Morass
- Area Subject to Inundation
- Lake/ Dam
- Wetland/ Swamp
- Destroyed Monitoring Locations

FIGURE 7

1:15,000 Scale at A3

Metres

0 500 1,000

Destroyed Monitoring Locations

PFAS ONGOING MONITORING PLAN
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardnonow Stantec
Date: 2023-11-03 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-076-Destroyed_GWBoreLocations_ES.mxd 02
Aerial Imagery Supplied by Google Earth (November, 2018)

DL16
DL19
DL02
DL03
DL04
DL05
DL01
DL06
DL17
DL18
DL07
DL14
DL11
DL10
DL12
DL08
DL09
DL13
DL15
APWS - SW251
APWS - SW351

Legend

- Site Boundary / Onsite Monitoring Area and Management Area
- Off-Site Monitoring Area
- Off-site Monitoring Area: Heart Morass
- Area Subject to Inundation
- Lake/ Dam
- Wetland/ Swamp
- Open Drain
- Main Irrigation Network
- Surface Water Migration
- Round 13 - Data Logger Monitoring Network

FIGURE 8

1:15,000 Scale at A3

Metres

0 500 1,000

Data Logger Monitoring Network

PFAS ONGOING MONITORING PLAN
RAAF BASE EAST SALE, VIC
DEPARTMENT OF DEFENCE

N

Cardno now Stantec

Map Produced by Cardno now Stantec
Date: 2023-11-08 | Project: DEF19008
Coordinate System: GDA 1994 MGA Zone 55
Map: DEF19008-GS-0381-DataLogger_Locations_ES.mxd 01
Aerial Imagery Supplied by Google Earth (November, 2018)

APPENDIX

B

ANALYTICAL SUITE

PFAS Analytical Suite

Group	Analyte
Perfluoroalkane Carboxylates (PFCAs)	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)
Fluorotelomer Sulfonates (FTSs)	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)
Perfluroalkyl sulfonates (PFSAs)	Perfluorobutane sulfonic acid (PFBS)
	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorohexane sulfonic acid (PFHxS)
	Perfluoroheptane sulfonic acid (PFHpS)
	Perfluorooctane sulfonic acid (PFOS)
	Perfluorodecane sulfonic acid (PFDS)
Perfluorooctane sulfonamidoethonals and perfluorooctane sulfonamidoacetic acids	N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)
	N-ethylperfluoro-1-octane sulphonamide (N-EtFOSA)
	2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)
	N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)
	2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)
	N-ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

APPENDIX C

WELL CONSTRUCTION DETAILS

Site_ID	Project_ID	Location_Code	TOC	Top_Screen_Depth	Bottom_Screen_Depth	Monitoring_Unit	Base_Depth	Comments
0937	VIC_0937_PFAS	MW008	4.58			I		No borelog available - Lower Alluvium Aquifer
0937	VIC_0937_PFAS	MW009	4.83			D		No borelog available - Haunted Hills Aquifer
0937	VIC_0937_PFAS	MW010	6.2			I		No borelog available - Lower Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW014	4.98			D		No borelogs present and no construction information in report
0937	VIC_0937_PFASOMP	MW015						
0937	VIC_0937_PFASOMP	MW016						
0937	VICTAS_Hist_202009-3	MW201	5.1	2	5	S	5.489	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW202	4.79	2	5	S	5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW203	4.97			S		No borelogs present and no construction information in report
0937	VIC_0937_PFASOMP	MW302						
0937	VIC_0937_PFAS	MW304	3.58			S		No borelog available - Upper Alluvium Aquifer
0937	VIC_0937_FSBGME	MW306	7.4			S	5.51	
0937	VIC_0937_PFAS	MW310	3.46			I		No borelog available - Lower Alluvium Aquifer
0937	VIC_0937_PFAS	MW312	3.49			D		No borelog available - Haunted Hills Aquifer
0937	VIC_0937_PFAS	MW316	4.25			S		No borelog available - Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW318	4.23			I		No borelog available - Lower Alluvium Aquifer
0937	VIC_0937_PFASOMP	MW319						
0937	VIC_0937_PFASOMP	MW320						
0937	VIC_0937_PFAS	MW321	3.86			D		No borelog available - Haunted Hills Aquifer
0937	VICTAS_Hist_202009-3	MW323	5.01	7	8	I	8	Lower Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW324	4.94	7	8	I	8	Lower Alluvium Aquifer
0937	VIC_0937_PFAS	MW325	5.92	1.7	4.2	S	4.2	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW326	6.61	1.5	3.5	S	3.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW603	6.51	3.2	6.2	S	6.2	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW607	6.66	3	6	S	6	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW609	6.48	1.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW610	6.51	1.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW612	6.49	1.5	6.5	S	6.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW615	5.74	2.7	5.7	S	5.7	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW616	5.89	2.7	5.7	S	5.7	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW617	4.98	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW618	4.77	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW619	4.39	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW620	5.43	2.6	5.6	S	5.6	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW622	4.7	2.8	5.8	S	5.8	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW623	4.89	2.2	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW624	4.85	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW625	4.91	2.4	5.4	S	5.4	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW626	4.7	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW627	4.54	2	5	S	5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW628	3.5	2	5	S	5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW629	3.28	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VICTAS_Hist_202009-3	MW636	5.72			S		No borelogs present and no construction information in report
0937	VIC_0937_PFAS	MW701	5.48	7.5	10.5	I	10.5	Borelog shows depth of screen and bore at 10.5m
0937	VIC_0937_PFAS	MW702	4.18	2	5.1	S	5.1	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW703	6.27	2.5	5.5	S	5.5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW704	5.93	7.5	10.5	I	10.5	Lower Alluvium Aquifer
0937	VIC_0937_PFAS	MW705	5.68	12.5	15	D	15	Haunted Hills Aquifer
0937	VIC_0937_PFAS	MW707	5.59	3	6	S	6	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW708	6.15	3	6	S	6	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW709	4.76	2	5.1	S	5.1	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW711	4.58	2	5.1	S	5.1	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW712	5.08	2	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW713	4.66	2	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW714	4.61	4	7	S	7	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW715	3.32	3	6	S	6	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW716	3.35	1	4	S	4	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW718	3.74	1	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW719	5.22	2	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW720	5.31	2	5.1	S	5.1	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW722	7.19	2	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW724	6.84	2	5	S	5	Upper Alluvium Aquifer

Site_ID	Project_ID	Location_Code	TOC	Top_Screen_Depth	Bottom_Screen_Depth	Monitoring_Unit	Base_Depth	Comments
0937	VIC_0937_PFAS	MW725	7.02	3	6	S	6	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW726	6.76	1.5	4.5	S	4.5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW728	6.94	3	6	S	6	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW729	5.91	12	15	D	15	Haunted Hills Aquifer
0937	VIC_0937_PFAS	MW730	3.91	2	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW733	6.36	0.8	3.8	S	3.8	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW734	7.29	1	4	S	4	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW735	5.43	2	5.1	S	5.1	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW737	6.59	15	18	D	18	Haunted Hills Aquifer
0937	VIC_0937_PFAS	MW738	5.86	2	5	S	5	Upper Alluvium Aquifer
0937	VIC_0937_PFAS	MW739	4.49	5.7	8.7	I	8.7	Lower Alluvium Aquifer
0937	VIC_0937_PFAS	MW740	6.41	7	10	I	10	Lower Alluvium Aquifer
0937	VIC_0937_PFAS	MW741	5.2	7	10	I	10	Lower Alluvium Aquifer
0937	VIC_0937_PFASOMP	POT027						
0937	VIC_0937_PFASOMP	POT034						
0937	VIC_0937_PFASOMP	POT042						
0937	VIC_0937_PFASOMP	POT050						
0937	VIC_0937_PFASOMP	POT051						

About Cardno

Cardno is a professional infrastructure and environmental services company, with expertise in the development and improvement of physical and social infrastructure for communities around the world. Cardno's team includes leading professionals who plan, design, manage and deliver sustainable projects and community programs. Cardno is an international company listed on the Australian Securities Exchange [ASX:CDD].

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APPENDIX

F

ABOUT AN ESA

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About Site Environmental Assessment Reports

1. Introduction

This document explains the Environmental Site Assessment (ESA) process and the context that applies to the use of Environmental Reports issued by Cardno.

2. What is an ESA?

Environmental Site Assessments (ESA) are undertaken for a range of purposes, specific to the brief issued by the client in each case. The scope may include one or a combination of any of the following:

- A factual report of the condition of a portion of the site or one aspect of an entire site.
- Assessment of the contamination levels in soil to be removed from a site – a waste classification assessment.
- Validation of the success of remediation of a site or a portion of a site.
- Provision of a professional opinion about the suitability of a site for one or more uses, in terms of its contamination status.

The scope of any ESA needs to be defined at the outset.

An ESA is not an Environmental Audit. Such audits are undertaken in accordance with the provisions of regulations enacted in various states of Australia, and are referred to as Site Audits in some jurisdictions. Statutory audits provide certification by EPA accredited auditors that a site is suitable for one or more uses. An ESA may provide similar advice but cannot be used in place of an audit if the latter is required by regulation in any instance. However in some circumstances and jurisdictions an ESA is sufficient to provide "environmental sign-off" of a site.

An ESA may be undertaken for due diligence purposes, to establish whether the site has been impacted to the extent that some beneficial uses of the site may be precluded. Due diligence audits in many cases may be completed as non-statutory Audits, although in some jurisdictions they can also be statutory audits, if defined as such at the outset.

3. The ESA Process

The Client generally initiates the ESA process by specifying a brief which identifies the specific objectives of the assessment. If not, it is the consultants' duty to so specify the ESA

In the case of an ESA to provide an opinion about the suitability of the site for use, it would be conducted in accordance with NEPM (Site Assessment). Such ESA would not commence until a thorough site history assessment (Phase 1 Assessment: to identify the potential for significant contamination at a site) is conducted. However, where the history is unclear, a broad screening of chemical parameters can be used to test environmental media. This normally includes a broad range of organic and inorganic compounds and elements, often referred to as an Environmental Screen.

(In the case of an ESA for a purpose other than to provide an opinion about the suitability of the site for use, it is not always necessary to undertake a Phase 1 assessment.)

The ESA requires sampling of soil at representative locations across the site. A NATA accredited laboratory performs the analysis of soil. It is impractical for all of the soil to be assessed. The ESA is often based on a statistical method of grid or random sampling, augmented by targeted sampling at locations known or suspected to be contaminated. Guidance on sampling strategy and density is provided in Australian Standard AS4482.1–2005. However, some considerable degree of judgement is still required in the application of any sampling and testing strategy. For example the blanket application of the "hot spot" method presented in this standard is often inappropriate given its limitations.

The field program also investigates the likelihood of contamination below the site surface. Field investigations must sample and test fill as well as the natural soils. If contamination is found then it is common for further work to be undertaken to characterise, to the extent practical, its vertical and horizontal extent. However, where fill is encountered and testing shows it to be uncontaminated, it must be realised that the heterogeneous nature of the material might mean that not all pockets of contaminated material can be detected using normal sampling regimes.

EPA guidelines for auditors, that may be relevant for an ESA, indicate the need in all cases to consider the potential for groundwater contamination in any site. This does not mean all sites need to be drilled to sample groundwater, but it is most often the case. Most hydrogeological settings and groundwater conditions are complex and vary in space and time. The condition of groundwater is investigated to identify if any beneficial use or environmental value of groundwater is precluded due to contamination.

As previously stated for soil, all groundwater at the site cannot be tested. The environmental investigations are conducted in accordance with industry standards and guidelines (e.g. EPA Vic Pub 668). This provides a level of confidence that a sufficiently comprehensive assessment of the groundwater at the site is achieved.

Where an investigation shows that groundwater is polluted, consideration should be given to assessing the risks and the need for and practicality of any clean up.

4. Environmental Assessment Report

The ESA Report details the findings of the ESA. It provides summary information on the site definition, the reasons for the assessment and other relevant facts. It reviews the scope and quality of the site investigations, laboratory testing and data analyses undertaken. These reports also present a review of the contamination status of the site, the need for any further clean up, and an opinion on the suitability of the site for a range of beneficial uses and land uses such as “residential – low density”, “commercial” etc, as appropriate.

However, as noted above, some ESA have a narrow scope such as for classification of waste soil for removal from site, and do not make conclusions on suitability of site for use.

The ESA Report generally includes copies of other documents and reports, necessary to support the assessment findings, presented as appendices. These can contain more detailed information than the body of the ESA Report. Care should be taken to also read the appended documents and the ESA report in full.

Cardno generally issues reports in electronic form (e-Report) on CD ROM. ESA Reports are issued in this format as Adobe Acrobat™ PDF files. However, a paper copy of the executive summary of the ESA Report is generally issued to the client, and others as required by the brief or by regulation.

5. Limitations of Environmental Assessment Report

The ESA Report is prepared in a manner that can be easily read by a lay person with a legitimate interest in the contamination status of the site, such as the site owner or occupier, EPA and Local Planning Authority. The ESA report is not intended for use by other parties or for other purposes. Anyone who uses the assessment report for purposes other than specified in the report, does so at their own risk.

The site should only be used for one or more of the beneficial uses and land uses identified in the ESA as suitable.

The conditions and qualifications may apply to the suitability of the site for use, and it is the responsibility of the Client to be cognizant of and accept these in accepting the report. Cardno are only responsible for the issuing of the ESA report but accepts no liability for the costs incurred in the implementation of ESA findings.

The ESA provides a “snapshot” of the site conditions at the time of the site investigation. Consequently, the report may not be valid at a later time if there has been any change to the contamination status of the site in that time. Verification of the status of the site may be required in cases where a significant time has elapsed, or site conditions have changed since the assessment and audit.

The ESA is necessarily limited by constraints such as time, cost and available information; although normal professional practice at the time has been applied with all due care to prepare the report. A necessary requirement of this process is the horizontal and vertical interpolation of data from discrete locations. However, site conditions are generally not homogenous and some discrepancies will occur between the actual and predicted results at locations not directly sampled. There is a risk that contamination may occur at the site and not be identified by a competent investigation and assessment. The approach adopted in sampling (a combination of statistically based grid and judgmental sampling) seeks to reduce, but cannot eliminate, this risk.

Where unexpected occurrences of contamination arise, subsequent to the issue of the ESA Report, Cardno should be permitted to make an interpretation of these facts in relation to the ESA Report findings. Consequently, the Client should inform Cardno and seek their opinion. Cardno accepts no liability for costs incurred due to such

unexpected occurrences, given the inherent uncertainties in the assessment process.

Cardno uses information provided by other parties as the basis for the ESA, and reliance on this information is at the discretion of Cardno. However, however Cardno cannot guarantee any of the facts, findings or conclusions presented by other parties. Cardno will not be liable for the use of information, provided by others that is subsequently found to be intentionally misleading.

The ESA Report is not and does not purport to be anything other than a contaminated land ESA. It is not a geotechnical report and bore logs reproduced are for interpretation of the likely distribution of contamination. They are not intended for geotechnical interpretations and may not be adequate for this purpose.

The ESA Report is not intended to be a comprehensive analysis of the presence and associated risk of asbestos in buildings and services. Where asbestos in buildings and services is known or likely, the report may only caution that an appropriately qualified person be engaged to undertake demolition to avoid contamination of the site.

Cardno

13 August 2015