

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	D04.0120220412104237_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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1. Motherhub Summary

Source TBM/Bin at Pivot	1	Source Geological Domain	4
Approx. Source Tunnel Chainage From	337	Approx. Source Tunnel Chainage To	340
Approx. Rings From	142	Approx. Rings To	143
Foaming Agent	TamSoil 287AC	Water Source	Potable (City West Water)
For BSF Holding Bay No:	D04.01	Start of Filling From (Time / date)	02/04/2022
Tonnes Put in Holding Bay No:	7290.49	Finish of Filling (Time / Date)	04/04/2022
Classified Volume (LCM)	4000	Spoil Classification Decision	NPIW Containment
Sampling Ratio (samples per LCM)	1: 133.33	Approx. Bank Cubic Meters (BCM)	573.63

2. Agon Spoil Classification Decision

Spoil Categorisation Decision (State Yes or No in each Row)	
NPIW Containment - 2020/476 (SO 9042848)	Yes
NPIW Landfill - 2019/404 (SO 9038429)	Yes
PIW-Category C - 2019/405 (SO 9038560)	No
PIW-Category B - 2019/406 (SO 9038561)	No
PIW-Category A	No

3. Agon Spoil Classification Assessment

3.1 Applicable Samples

Table 3.1 - 1 lists the applicable sample numbers for this spoil. These have been determined from:

- The date / time bay filling was started
- The date / time bay filling was finished
- The ID of the first truck that deposited spoil in the bay and the date / time that it was filled at Pivot
- The ID of the last truck that deposited spoil in the bay and the date / time it was filled at Pivot
- The sample ID that was associated with the first truck – noting that a time window to be associated with each sample is half the time interval between its sampling time and the time of the preceding and the following samples. For example, if samples were collected at 8am, noon and 4 pm, the time window for the noon sample is between 10 am and 2 pm. That is this sample “belongs” to all truck loaded in this time window

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Table 3.1 - Applicable Sample ID's

Table 3.1 - 1 Applicable Sample ID's

Applicable Spoil Sample ID's		
SX_OB_20220402_08_10_SS_Primary_EUF	SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_16_01_SS_Primary_EUF
SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_20_04_SS_Primary_EUF	SX_OB_20220403_16_02_SS_Duplicate_EUF
SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_16_04_SS_Triplicate_ALS
SX_OB_20220402_08_27_SS_Triplicate_EUF	SX_OB_20220403_03_56_SS_Primary_EUF	SX_OB_20220403_16_05_SS_Primary_ALS
SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS
SX_OB_20220402_13_17_SS_Primary_EUF	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_20_13_SS_Primary_EUF
SX_OB_20220402_16_03_SS_Primary_EUF	SX_OB_20220403_07_56_SS_Triplicate_EUF	SX_OB_20220404_00_02_SS_Primary_ALS
SX_OB_20220402_16_04_SS_Duplicate_EUF	SX_OB_20220403_07_57_SS_Primary_EUF	SX_OB_20220404_00_07_SS_Primary_EUF
SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220403_11_52_SS_Primary_EUF	SX_OB_20220404_03_51_SS_Primary_EUF
SX_OB_20220402_16_11_SS_Primary_ALS	SX_OB_20220403_11_53_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Total Sample Numbers	30	Ratio Acceptable
Primary Sample Numbers	22	Yes
Classified Volume (LCM)	4000 m ³	
Volume: Sample Number Ratio (Samples per LCM)	1: 133.33	

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3.2 Data Quality Compliance with SAQP

Table 3.2-1 evaluates the compliance of the data quality for this spoil – by reference to the criteria in the SAQP (Yes / No).

Table 3.2 - 1 Evaluation of Quality of Data for this Spoil

DQI	Field Consideration	Laboratory Consideration	Overall Data Quality Acceptability
Precision	Yes	Yes	Yes
Accuracy	Yes	Yes	Yes
Representativeness	Yes	Yes	Yes
Completeness	Yes	Yes	Yes
Comparability	Yes	Yes	Yes

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3.3 Selection of the Spoil Sample Testing Regime

Table 3.3 - 1 Selection of the Spoil Sample Testing Regime

	(State Yes or No in each Row)
<p>A. Is testing all spoil samples taken required for spoil in this Holding Bay, because prior to this Holding Bay, less than 10 Holding Bays of spoil have been tested from this Domain</p> <p>If the answer is Yes, go to E. If the answer is No, go to B.</p>	Yes
<p>B. If the answer to A is No (i.e., 10 or more Holding Bays of spoil have been tested from this Domain), do trends in the maximum data values from the previous 10 bays indicate that results are trending at <75% of the containment criteria?</p> <p>If the answer is Yes, go to C. If the answer is No, go to D.</p>	NA
<p>C. If the answer to B is Yes, then was testing of spoil for this Holding Bay reduced to two primary samples per bay plus QC samples (Minimum Testing Regime) as allowed by the SAQP (See SAQP Section 6.2.7)?</p>	NA
<p>D. If the answer to B is No, then was the default testing regime implemented for all samples collected for the spoil in this Holding Bay (as required by the SAQP)?</p>	NA
<p>E. Based on the answers to Questions A to D above, was the default testing regime (as defined in the SAQP) applied to the spoil in this Holding Bay?</p>	Yes
<p>F. Based on the answers to Questions A to D above, was the Minimum testing Regime (as defined in the SAQP) applied to the spoil in this Holding Bay?</p>	No

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3.4 Spoil Compliance with SAQP Criteria for Containment Cell

Table 3.4 - 1 Spoil Compliance with SAQP Criteria for Containment Cell

Need for IWRG 621.1 or 655.1 Testing	
A. Is Spoil in this Holding Bay from a Zone of Exception or Anomalous and required testing for IWRG 621.1?	No
B. Is IWRG 621.1 testing required for spoil in this Holding Bay, because prior to this Holding Bay, less than 10 Holding Bays of spoil have been tested from this Domain?	Yes
C. Is IWRG 621.1 testing required for spoil in this Holding Bay, because the moving 95% UCL values for the previous 10 consecutive Holding Bays of spoil from this Domain are not below TCO?	No
D. Is testing pursuant to IWRG 655.1 required for spoil in this Holding Bay, because the spoil comes from Exception Zone 3 (See SAQP Section 5.4)?	No
E. Has spoil testing for IWRG 621.1 Parameters been triggered by results of spoil water tests for previous Holding Bays of spoil from this geological domain?	No
Outcome from IWRG 621.1 testing (if needed)	
F. If Yes to one or more Questions A, B, C or E, (and not NOC< applicable background concentrations) then do test results for IWRG 621.1 (see Table 3.4-2) prohibit NPIW Containment as a spoil Classification Outcome? If no to all of Questions A, B, C and E, then respond NA to this question.	No
Outcome from IWRG 655.1 testing (if needed)	
G. If Yes to Questions D, then do test results for IWRG 655.1 (see Table 3.4-3) permit NPIW Containment as a spoil Classification Outcome? If no to Question D, respond NA to this question	NA
Outcome from PFAS Testing	
H. Do test results for PFAS (see Table 3.4-4 below) permit NPIW Containment as a spoil Classification Outcome?	Yes
<i>If Yes to either or both of Question E or F, then Spoil is Not Suitable for Containment; Go to Section 3.5. Otherwise, it is Suitable for Containment</i>	
Notes:	
<ol style="list-style-type: none"> 1. Criteria taken from EPA Grandfathered Classifications for TBM Spoil (2020/476 (SO 9042848)), and from the EPA approved EMP for Hi Quality's Containment Cell 	

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Table 3.4 - 2 IWRG 621.1 Parameter Concentration Statistics & Spoil Suitability for Containment

IWRG 621.1 Exceedance Test Results												
Chemical	Unit	LOR	No. of samples	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
Arsenic	mg/kg	2	30*	22	1: 133.33	30	13	22.87	24.91	42	20	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Chromium (Hexavalent)	mg/kg	1	30*	22	1: 133.33	5	<1	1.26	N/A	1.4	1	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Nickel	mg/kg	5	30*	22	1: 133.33	30	146	200.2	212.9	310	60	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Fluoride	mg/kg	100	30*	22	1: 133.33	23	120	223.9	N/A	1000	450	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)

“*” - Ratio used for categorisation of spoil is samples to LCM due to spoil not being from a zone of exception. (See Section 4)

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Table 3.4 – 3 IWRG 655.1 (WASS) Parameter Concentration Statistics & Spoil Suitability for Containment

IWRG 655.1 Test Results											
Chemical	Unit	LOR	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
pHF	pH									5	
pHFox	pH									5	
Delta pH										2	
%S	%									0.03%	
Mol H+ /tonne	Mol/tonne									18	

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Table 3.4 - 4 PFAS Parameter Concentrations & Spoil Suitability for Containment

PFAS Test Results											
Chemical	Unit	LOR	No. of Samples	No. of primary samples	No > LOR	Min	Mean	95% UCL on Mean	Max	Upper Limiting Criteria for NPIW Containment	Spoil Category for PFAS
Total PFAS Concentrations											
Total PFOS	ug/kg	5	30*	22	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFOA	ug/kg	5	30*	22	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFHxS	ug/kg	5	30*	22	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
ASLP (pH= 5) PFAS Concentrations											
PFOA	ug/L	0.01	30*	22	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	30*	22	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment
ASLP (pH= 7) PFAS Concentrations											
PFOA	ug/L	0.01	30*	22	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	30*	22	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment

“*” - Ratio used for categorisation of spoil is total samples to LCM due to spoil not being from a zone of exception. (See Section 4)

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3.5 Waste Classification for Spoil Not Suitable for Containment Cell

This Section 3.5 and the Tables 3.5-1 to 3.5-3 only apply if the spoil is classified in Section 3.4 as not suitable for the Containment Cell. If the spoil is classified in Section 3.4 as not suitable for the Containment Cell, then Tables 3.5-1 and 3.5-2 contain no data and no assessment.

Table 3.5 - 1 below contains the statistics for IWRG 621.1 Parameter concentrations, and Agon's assessment of their implications for the spoil waste category

Table 3.5 - 2 below contains the statistics for IWRG 655.1 Parameter concentrations, and Agon's assessment of their implications for the spoil waste category

Table 3.5 - 3 below contains the statistics for PFAS concentration, and Agon's assessment of their implications for the spoil waste category

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Table 3.5 - 1 IWRG 621.1 Parameter Concentration Statistics & Waste Classifications

IWRG 621.1 Exceedance Test Results													
Chemical	Unit	LOR	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW	Limiting Criteria for Cat C	Limiting Criteria for Cat B	Comment
Arsenic	mg/kg												
Copper	mg/kg												
Chromium (Hexavalent)	mg/kg												
Nickel	mg/kg												
Fluoride	mg/kg												

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Table 3.5 – 2 IWRG 655.1 (WASS) Parameter Concentration Statistics & Waste Classification

IWRG 655.1 Test Results											
Chemical	Unit	LOR	No. of primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
pHF	pH									5	
pHFox	pH									5	
Delta pH										2	
%S	%									0.03%	
Mol H+ /tonne	Mol/tonne									18	

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Table 3.5 - 3 PFAS Parameter Concentrations and Waste Classifications

PFAS Test Results													
Chemical	Unit	LOR	No. of primary samples	No > LOR	Min	Mean	95% UCL on Mean	Max	Upper Limiting Criteria for NPIW Containment	Upper Limiting Criteria for NPIW Landfill	Upper Limiting Criteria for PIW Cat C	Upper Limiting Criteria for PIW Cat B	Spoil Category for PFAS
Total PFAS Concentrations													
Total PFOS	ug/kg												
Total PFOA	ug/kg												
Total PFHxS	ug/kg												
ASLP (pH= 5) PFAS Concentrations													
PFOA	ug/L												
PFOS+PFHxS	ug/L												
ASLP (pH= 7) PFAS Concentrations													
PFOA	ug/L												
PFOS+PFHxS	ug/L												

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4. Comments and Limitations

Comments and Limitations	
1.	<p>Naturally Occurring Chemicals listed in IWRG 621.1 that are within the Background range despite being reported at concentrations that would otherwise categorise the material as PIW:</p> <ol style="list-style-type: none"> 1. Technical discussion around the naturally occurring metal concentrations found in soils beneath the WGTP is detailed in <i>Golder (2017b) – Technical Report B, Appendix E – Environmental characterisation of spoil (natural soil and rock)</i>. The report indicates that elevated metals (including arsenic, nickel, copper, chromium (CrVI), zinc and mercury) were considered to be associated with natural enrichment instead of anthropogenic contamination. <ol style="list-style-type: none"> a. Arsenic – <i>Golder (2017b) – Technical Report B, Appendix E section 6.2 Arsenic enrichment in the residual soil of the upper Older Volcanics (Tvo1)</i> found that while the soil of the upper Older Volcanics sub-unit contains arsenic, the arsenic is not characteristic of the wider sub unit (i.e the rock) or the lower sub-unit (soil or rock). The concentration of arsenic therefore appears to be related to the chemical and biological weather of the unit over time. This is further supported by: <ol style="list-style-type: none"> i. The residual soil of the sub-unit being characterised by iron-oxide staining and containing goethite. Goethite is an iron oxyhydroxide mineral, which can contain elevated concentrations of arsenic. <p>Golder therefore concluded that based on the broad vertical distribution of arsenic and the presence of arsenic throughout the greater project area, arsenic results in Upper Older Volcanics soil are not likely to be associated with anthropogenic contamination.</p> b. Nickel – <i>Golder (2017b) – Technical Report B, Appendix E section 6.3 Nickel enrichment within the upper Older Volcanics</i> found that <ol style="list-style-type: none"> i. Nickel is known to be enriched within olivine and pyroxene basalt minerals, leading to nickel enrichment of soils weathered from basalt (Martini and Chesworth, 2013). ii. The reported mean nickel concentrations within the Older Volcanics (Tvo) were comparable to results reported within soils derived from basalt in Auckland and basalt rock of Finland (ARC, 2001; Koljonen, 1992), Older Volcanics observed in the Melbourne Metro Project (Golder, 1026a) and Newer Volcanics basalt of the Westenra Plains (Birch, 2003). iii. Enriched nickel concentrations corresponded with enriched cobalt (all units) and iron (except tertiary volcanics (Tvo2) soil) indicating that the nickel is likely associated with geochemical enrichment rather than added contamination.

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iv. Enriched nickel concentrations also corresponded with enriched copper (Two soil and rock) and zinc (all units) indicating that the nickel is likely associated with geochemical enrichment rather than added contamination.

Golder therefore concluded that the nickel is likely associated with geochemical enrichment rather than added contamination.

The Golder study found that based on review of the depth, site history and the geochemical association of elements, the reported elevated concentrations of arsenic and nickel are considered representative of geogenic conditions and are not expected to be associated with contamination.

2. Previous reviews of the presence of hexavalent chromium (CrVI) in soil data outlined on the SAQP (Rev 5) were undertaken by Golders (2017) and later consolidated with data compiled by Mikkonen by AJJV (2019). The AJJV review of the consolidated data set identified:

- Samples reported to contain hexavalent chromium above the IWRG621 Table 2 Fill Material Upper Limit of 1mg/kg, were not collected in areas considered to be where anthropogenic sources of CrVI were present
- The ratio of tests reported above the laboratory LOR of 0.5 mg/kg was 15 out of 84 tests
- The ratio of tests where CrVI was above 1mg/kg was 3 in 84 samples
- The maximum reported concentration was 2.8mg/kg
- The 95%UCLave was 0.439

The AJJV data review was to assess whether the spoil derived from the tunnelling operations would contain chemicals that would result in the spoil being classified as something other than Fill Material. AJJV concluded the CrVI was present due to natural enrichment. Refer extract from the AJJV report below:

In summary, the reported CrVI concentration reported in the Older Volcanics are considered to be naturally occurring / enriched based on the following:

- *No potential CrVI sources have been identified in the vicinity of the sampling locations that reported the CrVI concentrations.*
- *Similar concentrations of CrVI were reported in the Older Volcanics on the MMRP, that were deemed to be naturally occurring.*
- *The 2017 Golder report concluded that enriched arsenic concentrations in the Older Volcanics on WGT*
- *Corresponded with enriched vanadium indicating that the arsenic is likely associated with geochemical enrichment rather than added contamination. The elevated CrVI is also found through this area deemed to be geochemically enriched.*

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- *There were limited exceedances of CrVI in the groundwater, which suggested no evidence of an anthropogenic source or Potential pathway from the surface*

Given the large volume of ground to be tunnelled, the 95% UCL's in Table E.2 and the likely naturally enriched nature of the reported CrVI, AJJV consider that the CrVI impacts will not alter the spoil classification within Domain 5. AJJV note that the material will undergo ongoing sampling as the TBM spoil is produced – sampling will be outlined within the SAQP. If any contaminated material is encountered beyond the extent of the nominated potentially contaminated domains, this will trigger management of the material in accordance with Tunnel Spoil Disposal Framework.

Agon notes that Table E1: Summary of elevated concentration within Natural materials concludes the presence of hexavalent chromium may “Potentially” classify the spoil as PIW.

Unit	Element Exceeding Criteria	Count	Detects	Min	Max	Mean	Median	Standard Deviation	Count of Exceedance	95% UCL	Fill Material Upper Limit	Victorian Background Soil Database Soil greater than 0.6 m below surface				Findings		Classification as PIW
												Count	Min#	Max	Mean	95% UCL Statistical Assessment	Victorian Soil Database Assessment	
Older Volcanics	Fluoride	84	1	50	600	204	185	109	2	225.1	450	92	<100	790	283	Not Exceeding	Natural Origin	No Affect
	Arsenic	101	84	<4	860	33	7	116	25	84.6	20	994	≤10	1200	18	Exceeding	Natural Origin	No Affect
	Cadmium	103	6	<0.1	3	0.52	0.5	0.41	2	NA	3	-	-	-	-	NA	No Data	No Affect
	Chromium (VI) ¹	84	15	<0.5	2.8	0.927	0.7	0.592	3	0.439	1	-	-	-	-	NA	No Data	Potentially
	Copper	101	98	<5	326	63	55	44	15	82.4	100	799	<25	87	<25	Not Exceeding	No Data	No Affect
	Mercury	101	7	<0.1	1.7	0.077	0.05	0.17	1	NA	1	-	-	-	-	NA	No Data	No Affect
	Nickel	101	99	<2	451	127	115	73	88	140.6	60	830	<25	170	28	Exceeding	Natural Origin	No Affect
	Zinc	101	99	<5	483	84	63	79	6	98.7	200	819	<25	190	<25	Not Exceeding	No Data	No Affect

A review of the Agon data for spoil reported in data set B.05 shows:

- A similar ratio of test results >1mg/kg compared to the overall data set;
- If a ½ LOR is substituted for results reported as <LOR (of 1mg/kg), then like the AJJV 95% UCL, the calculation is <1mg/kg

The results also show that there are no synthetic compounds reported above the laboratory LOR, another indication that anthropogenic contamination is not present

3. Previous reviews of the presence of Fluoride in soil data outlined on the SAQP (Rev 5) were undertaken by AJJV (2019). The AJJV review of the consolidated data set identified:

Samples which reported elevated fluoride concentrations were found to be within the range the ambient background from the parent or similar material in the Victorian Soil Database:

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	<p style="margin-left: 40px;">i. Newer Volcanics Group – Maximum 820 mg/kg ii. Older Volcanics – Maximum 600 mg/kg iii. Sub-Basaltic Alluvium – Maximum 240 mg/kg</p> <p style="margin-left: 40px;">In addition, the 95% UCLs calculated for Newer Volcanics Group and Older Volcanics, was 322.7 mg/kg and 225.1 mg/kg respectively, both of these values are below the 450mg/kg upper limit for spoil to be disposed of to the containment cell.</p> <p>A review of the Agon data for spoil reported in this data set shows:</p> <ul style="list-style-type: none"> • A similar ratio of test results > LOR compared to the overall data set; • If a ½ LOR is substituted for results reported as <LOR (of 100mg/kg), then like the AJJV 95% UCL, the calculation is less than the 450mg/kg upper limit for spoil to be disposed of to the containment cell. <p>The results also show that there are no synthetic compounds reported above the laboratory LOR, another indication that anthropogenic contamination is not present.</p>
2.	Test result outcomes can lead to two classification possibilities, however the classification decision follows the preference of the waste management hierarchy.
3.	Spoil is not from a “Zone of Exception”. Spoil from a zone of exception applies a sampling ratio of only Primary Samples to LCM to categorise spoil as per the SAQP revision 5. Sample to categorised volume ratio in zones of exception is to be as per IWRG702 with 1 primary spoil sample categorising a maximum 250 m3 of spoil.
4.	Loose Cubic metres (LCM) to mass (tonnes) conversion ratio used is 1 LCM:1.6 tonnes
5.	This report has been prepared in accordance with industry recognised standards and procedures current at the time of the work. The report presents the results of the assessment based on the quoted scope of works (unless otherwise agreed in writing) for the specific purposes of the engagement by the Client. No warranties expressed or implied, are offered to any third parties and no liability will be accepted for use of this report by third parties.
6.	All information provided by third parties has been assumed to be correct and complete. Agon does not assume any liability for misrepresentation of information by third parties or for matters not visible, accessible or present on the subject site.
7.	Opinions and judgements expressed herein are based on Agon’s understanding of current regulatory standards and should not be construed as legal opinions. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties other than those listed above.
8.	This report should be read in full.

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	D04.0120220412104237_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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5. Attachments

ATTACHMENT A: TABULATED RESULTS

ATTACHMENT B: 95% UCL AVE CALCULATIONS

ATTACHMENT C: LABORATORY CERTIFICATES

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	D04.0120220412104237_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT A: TABULATED RESULTS

								Metals									
								Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								2	0.4	5	5	1	5	0.1	5	5	2
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold																	
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold																	
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold																	
EPA PFAS Classification - Tunnel Zone - No option for disposal threshold																	
EPA Victoria IWRG621 Category B Leached Upper Limits																	
EPA Victoria IWRG621 Category B Upper Limits								2,000	400	20,000		2,000	6,000	300	4,000	12,000	200
EPA Victoria IWRG621 Category C Leached Upper Limits																	
EPA Victoria IWRG621 Category C Upper Limits								500	100	5,000		500	1,500	75	1,000	3,000	50
EPA Victoria IWRG621 Fill Upper Limits								20	3	100		1	300	1	40	60	10

Location Code	Field ID	Sample Code	Date	Lab Report Number	Lab Name	Sample Type	Parent Sample	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF	M22-Ap0004337	2/04/2022	876879	MGT	Normal		42	<0.4	81	140	<1	<5	<0.1	<5	230	<2
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF	M22-Ap0004356	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF	M22-Ap0004371	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_08_24_SS_Primary_ALS	EM2206081001	2/04/2022	EM2206081	ALSE-Melbourne	Normal		23	1	55	106	<1.0	<5	<0.1	<5	159	<5
D04.01	SX_OB_20220402_08_24_SS_Primary_ALS	EM2206081020	2/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_26_SS_Duplicate_ALS	EM2206081002	2/04/2022	EM2206081	ALSE-Melbourne	Field_D	EM2206081001	25	1	63	110	<1.0	<5	<0.1	<5	190	<5
D04.01	SX_OB_20220402_08_26_SS_Duplicate_ALS	EM2206081021	2/04/2022	EM2206081	ALSE-Melbourne	Field_D	EM2206081020										
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF	M22-Ap0004338	2/04/2022	876879	MGT	Interlab_D	EM2206081001	31	<0.4	67	130	<1	<5	<0.1	<5	220	<2
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF	M22-Ap0004357	2/04/2022	876879	MGT	Interlab_D	EM2206081001										
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF	M22-Ap0004372	2/04/2022	876879	MGT	Interlab_D	EM2206081020										
D04.01	SX_OB_20220402_13_12_SS_Primary_ALS	EM2206081005	2/04/2022	EM2206081	ALSE-Melbourne	Normal		24	<1	56	106	<1.0	<5	<0.1	<5	172	<5
D04.01	SX_OB_20220402_13_12_SS_Primary_ALS	EM2206081022	2/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF	M22-Ap0004339	2/04/2022	876879	MGT	Normal		32	<0.4	74	150	<1	<5	<0.1	<5	220	<2
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF	M22-Ap0004358	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF	M22-Ap0004373	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF	M22-Ap0004340	2/04/2022	876879	MGT	Normal		32	<0.4	84	160	<1	<5	<0.1	<5	250	<2
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF	M22-Ap0004359	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF	M22-Ap0004374	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF	M22-Ap0004341	2/04/2022	876879	MGT	Field_D	M22-Ap0004340	27	<0.4	72	160	<1	<5	<0.1	<5	210	<2
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF	M22-Ap0004360	2/04/2022	876879	MGT	Field_D	M22-Ap0004359										
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF	M22-Ap0004375	2/04/2022	876879	MGT	Field_D	M22-Ap0004374										
D04.01	SX_OB_20220402_16_06_SS_Triplicate_ALS	EM2206081006	2/04/2022	EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	19	<1	52	90	<1.0	<5	<0.1	<5	146	<5
D04.01	SX_OB_20220402_16_06_SS_Triplicate_ALS	EM2206081023	2/04/2022	EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374										
D04.01	SX_OB_20220402_16_11_SS_Primary_ALS	EM2206081007	2/04/2022	EM2206081	ALSE-Melbourne	Normal		28	<1	52	94	<1.0	<5	<0.1	<5	159	<5
D04.01	SX_OB_20220402_16_11_SS_Primary_ALS	EM2206081024	2/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_20_00_SS_Primary_ALS	EM2206081008	2/04/2022	EM2206081	ALSE-Melbourne	Normal		26	1	61	104	<1.0	<5	<0.1	<5	196	<5
D04.01	SX_OB_20220402_20_00_SS_Primary_ALS	EM2206081025	2/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF	M22-Ap0004342	2/04/2022	876879	MGT	Normal		14	<0.4	58	140	<1	<5	<0.1	<5	180	<2
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF	M22-Ap0004361	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF	M22-Ap0004376	2/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_00_02_SS_Primary_ALS	EM2206081009	3/04/2022	EM2206081	ALSE-Melbourne	Normal		19	1	56	107	1.2	<5	<0.1	<5	180	<5
D04.01	SX_OB_20220403_00_02_SS_Primary_ALS	EM2206081026	3/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF	M22-Ap0004343	3/04/2022	876879	MGT	Normal		17	<0.4	78	130	<1	<5	<0.1	<5	210	<2
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF	M22-Ap0004362	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF	M22-Ap0004377	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_07_55_SS_Primary_ALS	EM2206081010	3/04/2022	EM2206081	ALSE-Melbourne	Normal		24	1	54	86	<1.0	<5	<0.1	<5	163	<5
D04.01	SX_OB_20220403_07_55_SS_Primary_ALS	EM2206081027	3/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS	EM2206081011	3/04/2022	EM2206081	ALSE-Melbourne	Field_D	EM2206081010	27	<1	55	95	1.1	<5	<0.1	<5	170	<5
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS	EM2206081028	3/04/2022	EM2206081	ALSE-Melbourne	Field_D	EM2206081027										
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF	M22-Ap0004346	3/04/2022	876879	MGT	Interlab_D	EM2206081010	27	<0.4	71	140	<1	<5	<0.1	<5	210	<2
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF	M22-Ap0004363	3/04/2022	876879	MGT	Interlab_D	EM2206081010										
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF	M22-Ap0004378	3/04/2022	876879	MGT	Interlab_D	EM2206081027										
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF	M22-Ap0004347	3/04/2022	876879	MGT	Normal		26	<0.4	69	130	<1	<5	<0.1	<5	210	<2
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF	M22-Ap0004364	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF	M22-Ap0004379	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF	M22-Ap0004348	3/04/2022	876879	MGT	Normal		19	<0.4	70	140	<1	<5	<0.1	<5	200	<2
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF	M22-Ap0004365	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF	M22-Ap0004380	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_11_53_SS_Primary_ALS	EM2206081012	3/04/2022	EM2206081	ALSE-Melbourne	Normal		14	1	57	103	<1.0	<5	<0.1	<5	168	<5
D04.01	SX_OB_20220403_11_53_SS_Primary_ALS	EM2206081029	3/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF	M22-Ap0004351	3/04/2022	876879	MGT	Normal		24	<0.4	88	170	<1	<5	<0.1	<5	280	<2
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF	M22-Ap0004366	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF	M22-Ap0004381	3/04/2022	876879	MGT	Normal											

								Metals									
								Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	M22-Ap0004352	3/04/2022	876879	MGT	Field_D	M22-Ap0004351	23	<0.4	100	190	<1	<5	<0.1	<5	310	<2
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	M22-Ap0004367	3/04/2022	876879	MGT	Field_D	M22-Ap0004366										
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	M22-Ap0004382	3/04/2022	876879	MGT	Field_D	M22-Ap0004381										
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	EM2206081015	3/04/2022	EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	16	2	65	110	<1.0	<5	<0.1	<5	193	<5
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	EM2206081030	3/04/2022	EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381										
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	EM2206081016	3/04/2022	EM2206081	ALSE-Melbourne	Normal		14	1	58	97	1.3	<5	<0.1	<5	189	<5
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	EM2206081031	3/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	EM2206081017	3/04/2022	EM2206081	ALSE-Melbourne	Normal		22	1	62	108	1.4	<5	<0.1	<5	187	<5
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	EM2206081032	3/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	M22-Ap0004353	3/04/2022	876879	MGT	Normal		19	<0.4	84	160	<1	<5	<0.1	<5	280	<2
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	M22-Ap0004368	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	M22-Ap0004383	3/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	EM2206081018	4/04/2022	EM2206081	ALSE-Melbourne	Normal		13	<1	54	100	<1.0	<5	<0.1	<5	165	<5
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	EM2206081033	4/04/2022	EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	M22-Ap0004354	4/04/2022	876879	MGT	Normal		18	<0.4	61	120	<1	<5	<0.1	<5	190	<2
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	M22-Ap0004369	4/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	M22-Ap0004384	4/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	M22-Ap0004355	4/04/2022	876879	MGT	Normal		16	<0.4	65	120	<1	<5	<0.1	<5	200	<2
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	M22-Ap0004370	4/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	M22-Ap0004385	4/04/2022	876879	MGT	Normal											
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	EM2206081019	4/04/2022	EM2206081	ALSE-Melbourne	Normal		25	1	57	107	1.3	<5	<0.1	<5	169	<5
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	EM2206081034	4/04/2022	EM2206081	ALSE-Melbourne	Normal											

	PAH																					
	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene
EQL	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Thr	2	10	5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Thr																						
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Thr																						
EPA PFAS Classification - Tunnel Zone - No option for disposal thres																						
EPA Victoria IWRG621 Category B Leached Upper Limits																						
EPA Victoria IWRG621 Category B Upper Limits	720		140,000	400									20									
EPA Victoria IWRG621 Category C Leached Upper Limits																						
EPA Victoria IWRG621 Category C Upper Limits	180	500	35,000	100									5									
EPA Victoria IWRG621 Fill Upper Limits	10	50	200	20									1									

Location Code	Field ID	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF	<2	<10	170		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF																							
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF																							
D04.01	SX_OB_20220402_08_24_SS_Primary_ALS	<2	<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_08_24_SS_Primary_ALS																							
D04.01	SX_OB_20220402_08_26_SS_Duplicate_ALS	<2	<10	101	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_08_26_SS_Duplicate_ALS																							
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF	<2	<10	140		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF																							
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF																							
D04.01	SX_OB_20220402_13_12_SS_Primary_ALS	<2	<10	94	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_13_12_SS_Primary_ALS																							
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF	<2	<10	150		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF																							
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF																							
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF																							
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF	<2	<10	170		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF																							
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF																							
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF	<2	<10	140		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF																							
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF																							
D04.01	SX_OB_20220402_16_06_SS_Triplicate_ALS	<2	<10	78	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_06_SS_Triplicate_ALS																							
D04.01	SX_OB_20220402_16_11_SS_Primary_ALS	<2	<10	84	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_11_SS_Primary_ALS																							
D04.01	SX_OB_20220402_20_00_SS_Primary_ALS	<2	<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_20_00_SS_Primary_ALS																							
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF	<2	<10	110		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF																							
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF																							
D04.01	SX_OB_20220403_00_02_SS_Primary_ALS	<2	<10	86	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_00_02_SS_Primary_ALS																							
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF	<2	<10	130		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF																							
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF																							
D04.01	SX_OB_20220403_07_55_SS_Primary_ALS	<2	<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_07_55_SS_Primary_ALS																							
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS	<2	<10	85	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS																							
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS																							
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF	<2	<10	130		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF																							
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF																							
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF	<2	<10	130		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF																							
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF																							
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF	<2	<10	130		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF																							
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF																							
D04.01	SX_OB_20220403_11_53_SS_Primary_ALS	<2	<10	82	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_11_53_SS_Primary_ALS																							
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF	<2	<10	160		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF																							
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF																							

		PAH																					
		Silver mg/kg	Tin mg/kg	Zinc mg/kg	PAHs (Vic EPA List) mg/kg	Benzo(b+j+k)fluoranthene mg/kg	Acenaphthene mg/kg	Acenaphthylene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene TEQ calc (Zero) mg/kg	Benzo(a)pyrene TEQ (LOR) mg/kg	Benzo(a)pyrene TEQ calc (Half) mg/kg	Benzo(a)pyrene mg/kg	Benzo(b+j)fluoranthene mg/kg	Benzo(g,h,i)perylene mg/kg	Benzo(k)fluoranthene mg/kg	Chrysene mg/kg	Dibenz(a,h)anthracene mg/kg	Fluoranthene mg/kg	Fluorene mg/kg	Indeno(1,2,3-c,d)pyrene mg/kg	Naphthalene mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<2	<10	180																			
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																						
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																						
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	<2	<10	92	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS																						
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	<2	<10	86	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS																						
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	<2	<10	92	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS																						
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<2	<10	150																			
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																						
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																						
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	<2	<10	85	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS																						
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<2	<10	110																			
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																						
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																						
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<2	<10	120																			
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																						
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																						
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	<2	<10	100	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS																						

		BTEX								TRH						TPH					Aldrin	
		Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28		C29-C36
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																					
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																					
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS																					
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS																					
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS																					
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																					
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																					
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS																					
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																					
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																					
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																					
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																					
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																					
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	<0.5	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS																					

		Organochlorine Pesticides																					
		Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	Chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	α-BHC	β-BHC	γ-BHC	γ-BHC (Lindane)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																						
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																						
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS																						
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS																						
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS																						
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																						
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																						
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS																						
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																						
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																						
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																						
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																						
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																						
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS																						

		Phenols																						
		Methoxychlor	Toxaphene	Organochlorine pesticides EPA Vc	Other organochlorine pesticides EPA Vc	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPA Vc	Phenols (non-halogenated) EPA Vc	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																							
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																							
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS																							
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS																							
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS																							
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																							
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																							
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS																							
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																							
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																							
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																							
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																							
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS																							

		2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N-Ethyl perfluorooctane sulfonamide (NETFOSA)	N-ethyl-perfluorooctanesulfonamide doacetic acid (NETFOASA)	N-ethylperfluorooctanesulfonamideethanol (NETFOSE)	N-Methyl perfluorooctane				
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L			
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<5	<0.4	<5	<20	<0.5	<1	<20												
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005				
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005				
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	<5	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS							<0.00005	<0.00005	<0.00005	<0.0050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	<5	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS							<0.00005	<0.00005	<0.00005	<0.0050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	<5	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS							<0.00005	<0.00005	<0.00005	<0.0050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	<5	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS							<0.00005	<0.00005	<0.00005	<0.0050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<5	<0.4	<5	<20	<0.5	<1	<20	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF							<0.00001	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	<5	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS							<0.00005	<0.00005	<0.00005	<0.0050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005

		acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*		Sum of PFAS		1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	
		mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.005		<0.005		<0.005		<0.005		<0.05		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001														
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001														
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS	<0.0050	<0.00001	<0.0050				<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS		<0.00001					<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS	<0.0050	<0.00001	<0.0050				<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS		<0.00001					<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS	<0.0050	<0.00001	<0.0050				<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS		<0.00001					<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.005	<0.00001	<0.005		<0.005		<0.005	<0.05		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS	<0.0050	<0.00001	<0.0050				<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS		<0.00001					<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.005	<0.00001	<0.005		<0.005		<0.005	<0.05		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.005	<0.00001	<0.005		<0.005		<0.005	<0.05		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001														
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS	<0.0050	<0.00001	<0.0050				<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS		<0.00001					<0.00001	<0.0500		<0.50		<0.50						<0.50		<0.50	<0.50	<0.50	<0.50	

		Chlorinated Hydrocarbons																NA					
		cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPA/VIC	Trichloroethene	Chlorinated hydrocarbons EPA/VIC	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	Arochlor 1232	Arochlor 1242	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																		<0.05				
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																		<0.05				
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.01	31.0		
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS																		<0.01				
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.01	24.6		
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS																		<0.01				
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.01	30.1		
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS																		<0.01				
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																		<0.05				
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																		<0.05				
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.01	26.7		
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS																		<0.01				
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																		<0.05				
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																		<0.05				
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																		<0.05				
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																		<0.05				
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50	<10.0	<0.01	30.2		
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS																		<0.01				

		PCBs					Inorganics							Halogenated Benzenes								
		Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-	-	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	7.8	1,000	24	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF							5.4		5.0												
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF							8.8		6.4												
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS					<0.1	1.2	5.0	9.2	5.0		150		<5	<0.50	<0.50		<0.50			<0.50	
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS							9.4														
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS					<0.1	1.2	5.0	9.1	5.0		160		<5	<0.50	<0.50		<0.50			<0.50	
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS							9.4														
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS					<0.1	1.1	5.1	9.0	5.0		200		<5	<0.50	<0.50		<0.50			<0.50	
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS							9.3														
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1				8.6		360	30	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF							5.3		5.0												
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF							8.7		6.4												
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS					<0.1	1.2	5.0	8.8	5.0		<100		<5	<0.50	<0.50		<0.50			<0.50	
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS							9.4														
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF							5.0		5.0												
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF							8.8		6.4												
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.1	<0.1	<0.1	<0.1	<0.1				8.1		360	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF							5.0		5.0												
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF							8.7		6.4												
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS					<0.1	1.6	5.0	9.0	5.0		170		<5	<0.50	<0.50		<0.50			<0.50	
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS							9.4														

	Halogenated Hydrocarbons				MAH						Solvents					SPOCAS
	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPA/Vic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Thr																
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Thr																
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Thr																
EPA PFAS Classification - Tunnel Zone - No option for disposal thres																
EPA Victoria IWRG621 Category B Leached Upper Limits																
EPA Victoria IWRG621 Category B Upper Limits						240										
EPA Victoria IWRG621 Category C Leached Upper Limits																
EPA Victoria IWRG621 Category C Upper Limits						70										
EPA Victoria IWRG621 Fill Upper Limits						7										

Location Code	Field ID																
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF																
D04.01	SX_OB_20220402_08_10_SS_Primary_EUF																
D04.01	SX_OB_20220402_08_24_SS_Primary_ALS						<0.5		<0.5								7.7
D04.01	SX_OB_20220402_08_24_SS_Primary_ALS																
D04.01	SX_OB_20220402_08_26_SS_Duplicate_ALS						<0.5		<0.5								7.7
D04.01	SX_OB_20220402_08_26_SS_Duplicate_ALS																
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF																
D04.01	SX_OB_20220402_08_27_SS_Triplicate_EUF																
D04.01	SX_OB_20220402_13_12_SS_Primary_ALS						<0.5		<0.5								7.8
D04.01	SX_OB_20220402_13_12_SS_Primary_ALS																
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF																
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF																
D04.01	SX_OB_20220402_13_17_SS_Primary_EUF																
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF																
D04.01	SX_OB_20220402_16_03_SS_Primary_EUF																
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF																
D04.01	SX_OB_20220402_16_04_SS_Duplicate_EUF																
D04.01	SX_OB_20220402_16_06_SS_Triplicate_ALS						<0.5		<0.5								7.7
D04.01	SX_OB_20220402_16_06_SS_Triplicate_ALS																
D04.01	SX_OB_20220402_16_11_SS_Primary_ALS						<0.5		<0.5								7.7
D04.01	SX_OB_20220402_16_11_SS_Primary_ALS																
D04.01	SX_OB_20220402_20_00_SS_Primary_ALS						<0.5		<0.5								7.6
D04.01	SX_OB_20220402_20_00_SS_Primary_ALS																
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF																
D04.01	SX_OB_20220402_20_04_SS_Primary_EUF																
D04.01	SX_OB_20220403_00_02_SS_Primary_ALS						<0.5		<0.5								7.7
D04.01	SX_OB_20220403_00_02_SS_Primary_ALS																
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF																
D04.01	SX_OB_20220403_03_56_SS_Primary_EUF																
D04.01	SX_OB_20220403_07_55_SS_Primary_ALS						<0.5		<0.5								7.7
D04.01	SX_OB_20220403_07_55_SS_Primary_ALS																
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS						<0.5		<0.5								7.6
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS																
D04.01	SX_OB_20220403_07_56_SS_Duplicate_ALS																
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_07_56_SS_Triplicate_EUF																
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF																
D04.01	SX_OB_20220403_07_57_SS_Primary_EUF																
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF																
D04.01	SX_OB_20220403_11_52_SS_Primary_EUF																
D04.01	SX_OB_20220403_11_53_SS_Primary_ALS						<0.5		<0.5								7.6
D04.01	SX_OB_20220403_11_53_SS_Primary_ALS																
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF																
D04.01	SX_OB_20220403_16_01_SS_Primary_EUF																

		Halogenated Hydrocarbons				MAH						Solvents				SPOCAS	
		Bromomethane mg/kg	1,2-dibromoethane mg/kg	Dichlorodifluoromethane mg/kg	Trichlorofluoromethane mg/kg	Total MAH mg/kg	Monocyclic aromatic hydrocarbons EPA/Vic mg/kg	1,3,5-trimethylbenzene mg/kg	Styrene mg/kg	Isopropylbenzene mg/kg	1,2,4-trimethylbenzene mg/kg	4-Methyl-2-pentanone mg/kg	Acetone mg/kg	Amyl chloride mg/kg	Carbon disulfide mg/kg	Methyl Ethyl Ketone mg/kg	pH (CaCl2)
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF	<0.5	<0.5	<0.5	<0.5												-
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																
D04.01	SX_OB_20220403_16_02_SS_Duplicate_EUF																
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS					<0.5		<0.5									7.6
D04.01	SX_OB_20220403_16_04_SS_Triplicate_ALS																
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS					<0.5		<0.5									7.7
D04.01	SX_OB_20220403_16_05_SS_Primary_ALS																
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS					<0.5		<0.5									7.7
D04.01	SX_OB_20220403_20_07_SS_Primary_ALS																
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																
D04.01	SX_OB_20220403_20_13_SS_Primary_EUF																
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS					<0.5		<0.5									7.7
D04.01	SX_OB_20220404_00_02_SS_Primary_ALS																
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																
D04.01	SX_OB_20220404_00_07_SS_Primary_EUF																
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																
D04.01	SX_OB_20220404_03_51_SS_Primary_EUF																
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS					<0.5		<0.5									7.6
D04.01	SX_OB_20220404_03_59_SS_Primary_ALS																

							Metals										
							Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							2	0.4	5	5	1	5	0.1	5	5	2	2
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		32	<0.4	84	160	<1	<5	<0.1	<5	250	<2
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	27	<0.4	72	160	<1	<5	<0.1	<5	210	<2
RPD								17	0	15	0	0	0	0	0	17	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		32	<0.4	84	160	<1	<5	<0.1	<5	250	<2
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	19	<1	52	90	<1.0	<5	<0.1	<5	146	<2
RPD								51	0	47	56	0	0	0	0	53	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359										
RPD																	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374										
RPD																	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		23	1	55	106	<1.0	<5	<0.1	<5	159	<5
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	25	1	63	110	<1.0	<5	<0.1	<5	190	<5
RPD								8	0	14	4	0	0	0	0	18	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		23	1	55	106	<1.0	<5	<0.1	<5	159	<5
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	31	<0.4	67	130	<1	<5	<0.1	<5	220	<2
RPD								30	86	20	20	0	0	0	0	32	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		23	1	55	106	<1.0	<5	<0.1	<5	159	<5
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		24	<0.4	88	170	<1	<5	<0.1	<5	280	<2
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	23	<0.4	100	190	<1	<5	<0.1	<5	310	<2
RPD								4	0	13	11	0	0	0	0	10	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		24	<0.4	88	170	<1	<5	<0.1	<5	280	<2
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	16	2	65	110	<1.0	<5	<0.1	<5	193	<2
RPD								40	133	30	43	0	0	0	0	37	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		24	1	54	86	<1.0	<5	<0.1	<5	163	<5
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	27	<1	55	95	1.1	<5	<0.1	<5	170	<5
RPD								12	0	2	10	10	0	0	0	4	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		24	1	54	86	<1.0	<5	<0.1	<5	163	<5
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	27	<0.4	71	140	<1	<5	<0.1	<5	210	<2
RPD								12	86	27	48	0	0	0	0	25	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		24	1	54	86	<1.0	<5	<0.1	<5	163	<5
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027										
RPD																	

*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

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Tin mg/kg	Zinc mg/kg	PAHs (Vic EPA List) mg/kg	Benzo(b+h)fluoranthene mg/kg	Acenaphthene mg/kg	Acenaphthylene mg/kg	Anthracene mg/kg	Benzo(a)anthracene mg/kg	Benzo(a)pyrene TEQ calc (Zero) mg/kg	Benzo(a)pyrene TEQ (LOR) mg/kg	Benzo(a)pyrene TEQ calc (Half) mg/kg	
EQL								10	5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<10	170			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<10	140			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	19			0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<10	170			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<10	78	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	74			0	0	0	0	0	0		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<10	101	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	8	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<10	140	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	40			0	0	0	0	0	0		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<10	160			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<10	180			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	12			0	0	0	0	0	0		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<10	160			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<10	92	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	54			0	0	0	0	0	0		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<10	85	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	9	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<10	130			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD								0	33			0	0	0	0	0	0		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<10	93	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027												
RPD																			

*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

							PAH										
							Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359										
RPD																	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374										
RPD																	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0		0		0	0	0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027										
RPD																	

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
 **Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

								BTEX											
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								0.5	0.5	0.1	0.1	0.1	0.1	0.2	0.3	20	20	50	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	
RPD								0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027												
RPD																			

*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

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	TRH				TPH									
								C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 (Sum of total)	Aldrin	Dieldrin			
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
EQL								50	100	100	50	20	20	50	50	50	0.05	0.05			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal															
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359														
RPD																					
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal															
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374														
RPD																					
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal															
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374														
RPD																					
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001														
RPD																					
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal															
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020														
RPD																					
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal															
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020														
RPD																					
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal															
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366														
RPD																					
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal															
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381														
RPD																					
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal															
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381														
RPD																					
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05			
RPD								0	0	0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05			
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010														
RPD																					
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal															
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027														
RPD																					
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal															
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027														
RPD																					

*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

							Orga											
							Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359											
RPD																		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374											
RPD																		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
RPD							0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027											
RPD																		

*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

							Polychlorinated Pesticides										
							γ-Chlordane	α-Chlordane (cis)	β-Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	γ-BHC	β-BHC	δ-BHC	γ-BHC (Lindane)	Methoxychlor
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.1	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD								0			0	0	0	0	0	0	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
 **Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Toxaphene	Organochlorine pesticides EPAVc	Other organochlorine pesticides EPAVc	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								0.5	0.1	0.03	0.5	0.5	1	1	0.5	1	1	1	0.05
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.1	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.00	<1.0	<1.0	<0.05
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.00	<1.0	<1.0	<0.05
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.00	<1.0	<1.0	<0.05
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.00	<1.0	<1.0	<0.05
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.00	<1.0	<0.05
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027												
RPD																			

*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

							Phenols											
							4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexylphenol	Phenols (halogenated) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL							5	10	0.03	0.5	20	1	20	0.5	0.2	1	5	
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<5	<10		<0.5	<20		<0.5	<0.2	<1	<5	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<5	<10		<0.5	<20		<0.5	<0.2	<1	<5	
RPD							0	0		0				0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<5	<10		<0.5	<20		<0.5	<0.2	<1	<5	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD							0				0			0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359											
RPD																		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374											
RPD																		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD							0		0		0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<5	<10		<0.5	<20		<0.5	<0.2	<1	<1	<5
RPD							0				0			0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<5	<10		<0.5	<20		<0.5	<0.2	<1	<5	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<5	<10		<0.5	<20		<0.5	<0.2	<1	<5	
RPD							0	0		0				0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<5	<10		<0.5	<20		<0.5	<0.2	<1	<5	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD							0				0			0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD							0		0		0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<5	<10		<0.5	<20		<0.5	<0.2	<1	<1	<5
RPD							0				0			0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027											
RPD																		

*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

EQL							3,4-Methyphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic acid (8:2 FTS)		6:2 Fluorotelomer sulfonic acid
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.0001	0.005	<0.0001	0.005	0.00005
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	<0.4	<5	<20	<0.5	<1	<20	<0.0001	<0.005	<0.0001	<0.005	<0.00005
						RPD	0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.0001	<0.005	<0.0001	<0.005	<0.00005
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	<1	<5	<20	<1	<20	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	
						RPD	0	0	0	0			0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
						RPD	0	0	0	0			0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	<0.4	<5	<20	<0.5	<1	<20	<0.0001	<0.005	<0.0001	<0.005	<0.00005
						RPD	0	0	0	0			0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.005	<0.005	<0.005	<0.005	<0.00005
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	<0.4	<5	<20	<0.5	<1	<20	<0.005	<0.005	<0.005	<0.005	<0.00005
						RPD	0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.005	<0.005	<0.005	<0.005	<0.00005
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
						RPD	0	0	0	0			0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
						RPD	0	0	0	0			0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	<0.4	<5	<20	<0.5	<1	<20	<0.005	<0.005	<0.005	<0.005	<0.00005
						RPD	0	0	0	0			0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.0005	<0.0050	<0.0005	<0.0050	<0.00005
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
						RPD	0						0	0	0	0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal	<0.0005						<0.0005	<0.0005	<0.0005	<0.0005	<0.00005
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	<0.0001						<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
						RPD	0						0	0	0	0	

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

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

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

								acid (6:2 FTS)										
								mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/kg	
								0.01	0.00001	0.005	0.00005	0.005	0.00002	0.01	0.00005	0.005	0.00005	0.005
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-ethyl-perfluorooctanesulfonamide perfluorooctane sulfonic acid (NEtFOSA)	N-ethylperfluorooctanesulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamide (NEtFOSA)	N-ethylperfluorooctanesulfonamide (NEtFOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)			
								<0.01	<0.0005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.01	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005			
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.01	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.01	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005			
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374	<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0	0	0	0	0	0	0	0			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.01	<0.00005	<0.005	<0.00005	<0.005	
RPD								0	0	0	0	0	0	0	0			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
RPD								0	0	0	0	0	0	0	0			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020	<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
RPD								0	0	0	0	0	0	0	0			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
RPD								0	0	0	0	0	0	0	0			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.01	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005			
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.01	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.01	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005			
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381	<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0	0	0	0	0	0	0	0			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.01	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00002	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027	<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00005	<0.00005	<0.00005	<0.00002	<0.00005	<0.00005	<0.00005	<0.00005			
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027	<0.00001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005			
RPD								0	0	0	0	0	0	0				

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
 **Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))
 ***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

EQL	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-methylperfluorooctanesulfonamideethanoic acid (NMeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid
	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
	0.00002	0.01	0.00005	0.005	0.00005	0.005	0.00001	0.005	0.00001	0.005	0.00001
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.01		<0.005	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.01		<0.005	
RPD								0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.01		<0.005	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.00002	<0.0100	<0.00005	<0.0050
RPD								0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00005		<0.00005	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00005		<0.00005	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00005		<0.00005	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374	<0.00002	<0.00005	<0.0001	<0.00002
RPD								0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002	<0.0100	<0.00005	<0.0050
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.00002	<0.0100	<0.00005	<0.0050
RPD								0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002	<0.0100	<0.00005	<0.0050
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.00002	<0.01	<0.00005	<0.005
RPD								0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002	<0.0100	<0.00005	<0.0050
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002		<0.00005	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020	<0.00002		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002		<0.00005	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.01		<0.005	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.01		<0.005	
RPD								0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.01		<0.005	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.00002	<0.0100	<0.00005	<0.0050
RPD								0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00005		<0.00005	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00005		<0.00005	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00005		<0.00005	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381	<0.00002	<0.00005	<0.0001	<0.00002
RPD								0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002	<0.0100	<0.00005	<0.0050
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.00002	<0.0100	<0.00005	<0.0050
RPD								0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002	<0.0100	<0.00005	<0.0050
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.00002	<0.01	<0.005	<0.005
RPD								0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002	<0.0100	<0.00005	<0.0050
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.00005		<0.00005	
RPD								0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002		<0.0001	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027	<0.00002	<0.00005	<0.0001	<0.00002
RPD								0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002		<0.0001	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027	<0.00005		<0.00005	
RPD								0		0	

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

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

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

							PFOS/PFOA										
							Perfluorodecane sulfonic acid (PFDS)	Perfluorooctane sulfonic acid (PFHpA)	Perfluorooctane sulfonic acid (PFHpS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)						
							mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg		
EQL							0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005		
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Perfluorodecane sulfonic acid (PFDS)	Perfluorooctane sulfonic acid (PFHpA)	Perfluorooctane sulfonic acid (PFHpS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorodecane sulfonic acid (PFDS)	Perfluorooctane sulfonic acid (PFHpA)	Perfluorooctane sulfonic acid (PFHpS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.005			<0.005		<0.005			<0.005	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.005			<0.005		<0.005			<0.005	
RPD							0				0		0			0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.005			<0.005		<0.005			<0.005	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001			<0.00001		<0.00001			<0.00001	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001			<0.00001		<0.00001			<0.00001	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001			<0.00001		<0.00001			<0.00001	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374	<0.00002			<0.00002		<0.00002			<0.00002	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002			<0.00002		<0.00002			<0.00002	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020	<0.00002			<0.00002		<0.00002			<0.00002	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002			<0.00002		<0.00002			<0.00002	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.005	<0.005		<0.005		<0.005			<0.005	<0.005
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.005	<0.005		<0.005		<0.005			<0.005	<0.005
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.005	<0.005		<0.005		<0.005			<0.005	<0.005
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001			<0.00001		<0.00001			<0.00001	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001			<0.00001		<0.00001			<0.00001	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001			<0.00001		<0.00001			<0.00001	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381	<0.00002			<0.00002		<0.00002			<0.00002	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.005	<0.005		<0.005		<0.005			<0.005	<0.005
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002			<0.00002		<0.00002			<0.00002	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027	<0.00002			<0.00002		<0.00002			<0.00002	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00002			<0.00002		<0.00002			<0.00002	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027	<0.00001			<0.00001		<0.00001			<0.00001	
RPD							0		0		0		0		0		0

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

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

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

EQL	Perfluorononanesulfonic acid (PFNS)(trace)	Perfluorooctanoic acid (PFOA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentanoic acid (PFPeA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluoropropanesulfonic acid	mg/L		mg/kg											
							0.00001	0.005	0.00001	0.005	0.00002	0.005	0.00001	0.005	0.00001	0.005				
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample													
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340													
RPD																				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340													
RPD																				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359													
RPD																				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374													
RPD																				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374													
RPD																				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001													
RPD																				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001													
RPD																				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001													
RPD																				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020													
RPD																				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020													
RPD																				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351													
RPD																				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351													
RPD																				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366													
RPD																				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381													
RPD																				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal														
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381													
RPD																				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010													
RPD																				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010													
RPD																				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010													
RPD																				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027													
RPD																				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal														
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027													
RPD																				

*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

acid (PFPrS)	Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTriDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)	
	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/kg
EQL	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTriDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.005		<0.005		<0.005		<0.005		<0.005	
RPD								0		0		0		0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
RPD										0		0		0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal			<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal			<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal			<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374		<0.00005	<0.00002		<0.00002		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
RPD									0			0		0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.005		<0.005		<0.005		<0.005		<0.005	
RPD									0			0		0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
RPD									0			0		0		0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.005		<0.005		<0.005		<0.005		<0.005	
RPD								0		0		0		0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
RPD									0			0		0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal			<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal			<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal			<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381		<0.00005	<0.00002		<0.00002		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
RPD									0			0		0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.005		<0.005		<0.005		<0.005		<0.005	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027		<0.00005	<0.00002		<0.00002		<0.00001		<0.00001	
RPD									0			0		0		0	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<0.00005	<0.00002		<0.00002		<0.00001		<0.00001	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027		<0.00001	<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0			0		0		0	

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

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

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

							Sum of PFHx and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHx + PFOS + PFOA)*	Sum of PFAS	Sum of PFAS	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane			
							mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	
EQL							0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.05	0.5	0.5	0.5
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.00001	<0.005		<0.005	<0.00001	<0.05	<0.5	<0.5	<0.5	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.00001	<0.00001		<0.00001	<0.0001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001				<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020	<0.00001				<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001				<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020	<0.00001	<0.00001		<0.00001	<0.0001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381	<0.00001				<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00001	<0.0500		<0.50		
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001				<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027	<0.00001				<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.00001				<0.00001		<0.0001		<0.0001	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027	<0.00001		<0.00001		<0.00001		<0.0001		<0.0001	
RPD							0		0		0		0		0		0

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

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

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

							1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene		
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
EQL							0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample												
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0	0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.50			<0.50		<0.50	<0.50	<0.50				
RPD								0				0		0	0	0			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50				
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.50			<0.50		<0.50	<0.50	<0.50				
RPD								0			0		0	0	0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50				
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0				0		0	0	0			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50				
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0	0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.50			<0.50		<0.50	<0.50	<0.50				
RPD								0				0		0	0	0			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50				
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.50			<0.50		<0.50	<0.50	<0.50				
RPD								0				0		0	0	0			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50				
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD								0				0		0	0	0			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50				
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027												
RPD																			

*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

Chlorinated Hydrocarbons										
Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPA Vic	Trichloroethene	Chlorinated hydrocarbons EPA Vic	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Chlorinated Hydrocarbons											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD								0	0	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD									0	0	0	0	0	0	0	0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.5	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal													
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD									0	0	0	0	0	0	0	0	0		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027												
RPD																			
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal													
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027												
RPD																			

*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

											NA						
								Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	Arochlor 1232	Arochlor 1242	Arochlor 1248
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	%	mg/kg	mg/kg	mg/kg
								0.5	0.5	0.5	0.5	0.5	0.05	1	0.1	0.1	0.1
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
RPD								0	0	0	0	0	0		0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340	<0.50			<0.50	<0.50	<10.0	<0.01	19.3		
RPD								0			0	0	0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.05					<0.05				
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359	<0.05					<0.05				
RPD								0					0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.05					<0.05				
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374	<0.05					<0.05				
RPD								0					0				
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.05					<0.05				
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374	<0.05					<0.01				
RPD													0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.01	29.2		
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.50			<0.50	<0.50	<10.0	<0.01	30.3		
RPD								0			0	0	0	0	4		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.01	29.2		
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
RPD								0			0	0	0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.01	29.2		
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.05					<0.05				
RPD								0					0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.01					<0.01				
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020	<0.01					<0.01				
RPD								0					0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.01					<0.01				
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020	<0.05					<0.05				
RPD													0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
RPD								0	0	0	0	0	0		0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351	<0.50			<0.50	<0.50	<10.0	<0.01	31.0		
RPD								0			0	0	0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.05					<0.05				
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366	<0.05					<0.05				
RPD								0					0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.05					<0.05				
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381	<0.05					<0.05				
RPD								0					0				
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.05					<0.05				
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381	<0.01					<0.01				
RPD													0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.01	27.3		
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.50			<0.50	<0.50	<10.0	<0.01	26.8		
RPD								0			0	0	0	0	2		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.01	27.3		
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
RPD								0			0	0	0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.01	27.3		
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.05					<0.05				
RPD								0					0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.01					<0.01				
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027	<0.01					<0.01				
RPD								0					0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.01					<0.01				
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027	<0.05					<0.05				
RPD													0				

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

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

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

PCBs					Inorganics					
Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (after HCL)	pH (Final)	pH (Initial)	pH of Leaching Fluid	pH (aqueous extract)	Fluoride
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-	-	-	-	mg/kg

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample												
EQL								0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.1	<0.1	<0.1	<0.1	<0.1					8.7	220	
RPD								0	0	0	0	0					2	75	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340				<0.1	1.1	5.0	9.2	5.0			260	
RPD												0						89	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal							5.3	5.0					
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359						5.3	5.0					
RPD												0		0					
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal							8.6	6.4					
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374						8.6	6.4					
RPD												0		0					
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal							8.6	6.4					
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374						9.4						
RPD												9							
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	1.0	5.1	8.9	5.0			170	
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001	<0.1	<0.1	<0.1	<0.1	1.8	5.1	9.2	5.0			120	
RPD												0	57	0	3	0		34	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	1.0	5.1	8.9	5.0			170	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.1	<0.1	<0.1	<0.1	<0.1					7.8	<100	
RPD												0						52	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	1.0	5.1	8.9	5.0			170	
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001						5.3	5.0					
RPD												4		0					
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal							9.4						
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020						9.5						
RPD												1							
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal							9.4						
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020						8.7	6.4					
RPD												8							
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					8.5	590	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.1	<0.1	<0.1	<0.1	<0.1					7.8	1,000	
RPD												0						9	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					8.5	590	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351				<0.1	1.2	5.0	9.2	5.0			150	
RPD												0						119	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal							5.3	5.0					
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366						5.4	5.0					
RPD												2		0					
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal							8.8	6.4					
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381						8.8	6.4					
RPD												0		0					
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal							8.8	6.4					
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381						9.4						
RPD												7							
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	1.1	5.0	9.3	5.0			200	
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010	<0.1	<0.1	<0.1	<0.1	1.2	5.0	9.2	5.0			170	
RPD												0	9	0	1	0		16	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	1.1	5.0	9.3	5.0			200	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100	
RPD												0						67	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	1.1	5.0	9.3	5.0			200	
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010						5.0	5.0					
RPD												0		0					
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal							9.5						
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027						9.4						
RPD												1							
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal							9.5						
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027						8.7	6.4					
RPD												9							

*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

							Halogenated Benzenes											
							Moisture Content (dried @ 103°C)	Cyanide Total	Halogenated Benzenes								Halog	
									%	mg/kg	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane
EQL							1	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	26	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD								7	0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340		<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359											
RPD																		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374											
RPD																		
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001		<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD									0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal			<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020											
RPD																		
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	24	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD									15	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351		<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381											
RPD																		
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal												
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010		<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD									0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	30	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD									0	0	0	0	0	0	0	0	0	0
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal			<5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027											
RPD																		
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal												
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027											
RPD																		

*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

							Saturated Hydrocarbons			MAH							
							1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPA/Vic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL							0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0	0	0	0		0	0	0	0	0	0
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340				<0.5		<0.5				
RPD												0					
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359										
RPD																	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374										
RPD																	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					<0.5		<0.5				
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001				<0.5		<0.5				
RPD											0		0				
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					<0.5		<0.5				
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD												0					
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					<0.5		<0.5				
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020										
RPD																	
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD							0	0	0	0		0	0	0	0	0	0
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351				<0.5		<0.5				
RPD												0					
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381										
RPD																	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal											
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					<0.5		<0.5				
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010				<0.5		<0.5				
RPD											0		0				
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					<0.5		<0.5				
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5
RPD												0					
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					<0.5		<0.5				
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027										
RPD																	
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal											
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027										
RPD																	

*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

Solvents			SPOCAS
Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone	pH (CaCl2)
mg/kg	mg/kg	mg/kg	-
0.5	0.5	0.5	0.1

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample				
EQL											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004340	<0.5	<0.5	<0.5	
RPD								0	0	0	
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004340				7.7
RPD											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal					
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004359				
RPD											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal					
D04.01	SX_OB_20220402_16_04_SS_Di	2/04/2022		876879	MGT	Field_D	M22-Ap0004374				
RPD											
D04.01	SX_OB_20220402_16_03_SS_Pr	2/04/2022		876879	MGT	Normal					
D04.01	SX_OB_20220402_16_06_SS_Tr	2/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004374				
RPD											
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					7.7
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081001				7.7
RPD											0
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					7.7
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001	<0.5	<0.5	<0.5	
RPD											
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					7.7
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081001				
RPD											
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					
D04.01	SX_OB_20220402_08_26_SS_Di	2/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081020				
RPD											
D04.01	SX_OB_20220402_08_24_SS_Pr	2/04/2022		EM2206081	ALSE-Melbourne	Normal					
D04.01	SX_OB_20220402_08_27_SS_Tr	2/04/2022		876879	MGT	Interlab_D	EM2206081020				
RPD											
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004351	<0.5	<0.5	<0.5	
RPD								0	0	0	
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal		<0.5	<0.5	<0.5	
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004351				7.6
RPD											
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal					
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004366				
RPD											
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal					
D04.01	SX_OB_20220403_16_02_SS_Di	3/04/2022		876879	MGT	Field_D	M22-Ap0004381				
RPD											
D04.01	SX_OB_20220403_16_01_SS_Pr	3/04/2022		876879	MGT	Normal					
D04.01	SX_OB_20220403_16_04_SS_Tr	3/04/2022		EM2206081	ALSE-Melbourne	Interlab_D	M22-Ap0004381				
RPD											
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					7.7
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081010				7.6
RPD											1
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					7.7
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010	<0.5	<0.5	<0.5	
RPD											
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					7.7
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081010				
RPD											
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					
D04.01	SX_OB_20220403_07_56_SS_Di	3/04/2022		EM2206081	ALSE-Melbourne	Field_D	EM2206081027				
RPD											
D04.01	SX_OB_20220403_07_55_SS_Pr	3/04/2022		EM2206081	ALSE-Melbourne	Normal					
D04.01	SX_OB_20220403_07_56_SS_Tr	3/04/2022		876879	MGT	Interlab_D	EM2206081027				
RPD											

*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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	D04.0120220412104237_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT B: 95% UCL AVE CALCULATIONS

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation		ProUCL 5.114/04/2022 4:25:19 PM									
5	From File		WorkSheet_a.xls									
6	Full Precision		OFF									
7	Confidence Coefficient		95%									
8	Number of Bootstrap Operations		2000									
9												
10												
11	Arsenic											
12												
13	General Statistics											
14	Total Number of Observations				30		Number of Distinct Observations				16	
15							Number of Missing Observations				0	
16	Minimum				13		Mean				22.87	
17	Maximum				42		Median				23.5	
18	SD				6.58		Std. Error of Mean				1.201	
19	Coefficient of Variation				0.288		Skewness				0.681	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.947		Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value				0.927		Data appear Normal at 5% Significance Level					
24	Lilliefors Test Statistic				0.122		Lilliefors GOF Test					
25	5% Lilliefors Critical Value				0.159		Data appear Normal at 5% Significance Level					
26	Data appear Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL				24.91		95% Adjusted-CLT UCL (Chen-1995)				25	
31							95% Modified-t UCL (Johnson-1978)				24.93	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				0.39		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.745		Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.112		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.16		Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				12.78		k star (bias corrected MLE)				11.53	
42	Theta hat (MLE)				1.789		Theta star (bias corrected MLE)				1.984	
43	nu hat (MLE)				766.9		nu star (bias corrected)				691.6	
44	MLE Mean (bias corrected)				22.87		MLE Sd (bias corrected)				6.735	
45							Approximate Chi Square Value (0.05)				631.6	
46	Adjusted Level of Significance				0.041		Adjusted Chi Square Value				628.3	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))				25.04		95% Adjusted Gamma UCL (use when n<50)				25.17	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.964		Shapiro Wilk Lognormal GOF Test					

	A	B	C	D	E	F	G	H	I	J	K	L
53	5% Shapiro Wilk Critical Value					0.927	Data appear Lognormal at 5% Significance Level					
54	Lilliefors Test Statistic					0.129	Lilliefors Lognormal GOF Test					
55	5% Lilliefors Critical Value					0.159	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data					2.565	Mean of logged Data					3.09
60	Maximum of Logged Data					3.738	SD of logged Data					0.288
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL					25.22	90% Chebyshev (MVUE) UCL					26.53
64	95% Chebyshev (MVUE) UCL					28.19	97.5% Chebyshev (MVUE) UCL					30.49
65	99% Chebyshev (MVUE) UCL					35.01						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL					24.84	95% Jackknife UCL					24.91
72	95% Standard Bootstrap UCL					24.8	95% Bootstrap-t UCL					25.11
73	95% Hall's Bootstrap UCL					25.1	95% Percentile Bootstrap UCL					24.87
74	95% BCA Bootstrap UCL					24.97						
75	90% Chebyshev(Mean, Sd) UCL					26.47	95% Chebyshev(Mean, Sd) UCL					28.1
76	97.5% Chebyshev(Mean, Sd) UCL					30.37	99% Chebyshev(Mean, Sd) UCL					34.82
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL					24.91						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86												
87	Nickel											
88												
89	General Statistics											
90	Total Number of Observations					30	Number of Distinct Observations					21
91							Number of Missing Observations					0
92	Minimum					146	Mean					200.2
93	Maximum					310	Median					191.5
94	SD					38.68	Std. Error of Mean					7.063
95	Coefficient of Variation					0.193	Skewness					1.263
96												
97	Normal GOF Test											
98	Shapiro Wilk Test Statistic					0.892	Shapiro Wilk GOF Test					
99	5% Shapiro Wilk Critical Value					0.927	Data Not Normal at 5% Significance Level					
100	Lilliefors Test Statistic					0.167	Lilliefors GOF Test					
101	5% Lilliefors Critical Value					0.159	Data Not Normal at 5% Significance Level					
102	Data Not Normal at 5% Significance Level											
103												
104	Assuming Normal Distribution											

	A	B	C	D	E	F	G	H	I	J	K	L
105	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
106	95% Student's-t UCL					212.2	95% Adjusted-CLT UCL (Chen-1995)					213.6
107							95% Modified-t UCL (Johnson-1978)					212.5
108												
109	Gamma GOF Test											
110	A-D Test Statistic					0.693	Anderson-Darling Gamma GOF Test					
111	5% A-D Critical Value					0.744	Detected data appear Gamma Distributed at 5% Significance Level					
112	K-S Test Statistic					0.138	Kolmogorov-Smirnov Gamma GOF Test					
113	5% K-S Critical Value					0.16	Detected data appear Gamma Distributed at 5% Significance Level					
114	Detected data appear Gamma Distributed at 5% Significance Level											
115												
116	Gamma Statistics											
117	k hat (MLE)					30.8	k star (bias corrected MLE)					27.74
118	Theta hat (MLE)					6.499	Theta star (bias corrected MLE)					7.216
119	nu hat (MLE)					1848	nu star (bias corrected)					1665
120	MLE Mean (bias corrected)					200.2	MLE Sd (bias corrected)					38.01
121							Approximate Chi Square Value (0.05)					1571
122	Adjusted Level of Significance					0.041	Adjusted Chi Square Value					1566
123												
124	Assuming Gamma Distribution											
125	95% Approximate Gamma UCL (use when n>=50)					212.1	95% Adjusted Gamma UCL (use when n<50)					212.9
126												
127	Lognormal GOF Test											
128	Shapiro Wilk Test Statistic					0.944	Shapiro Wilk Lognormal GOF Test					
129	5% Shapiro Wilk Critical Value					0.927	Data appear Lognormal at 5% Significance Level					
130	Lilliefors Test Statistic					0.127	Lilliefors Lognormal GOF Test					
131	5% Lilliefors Critical Value					0.159	Data appear Lognormal at 5% Significance Level					
132	Data appear Lognormal at 5% Significance Level											
133												
134	Lognormal Statistics											
135	Minimum of Logged Data					4.984	Mean of logged Data					5.283
136	Maximum of Logged Data					5.737	SD of logged Data					0.18
137												
138	Assuming Lognormal Distribution											
139	95% H-UCL					212.2	90% Chebyshev (MVUE) UCL					219.9
140	95% Chebyshev (MVUE) UCL					228.8	97.5% Chebyshev (MVUE) UCL					241.3
141	99% Chebyshev (MVUE) UCL					265.8						
142												
143	Nonparametric Distribution Free UCL Statistics											
144	Data appear to follow a Discernible Distribution at 5% Significance Level											
145												
146	Nonparametric Distribution Free UCLs											
147	95% CLT UCL					211.8	95% Jackknife UCL					212.2
148	95% Standard Bootstrap UCL					211.3	95% Bootstrap-t UCL					214.6
149	95% Hall's Bootstrap UCL					214.7	95% Percentile Bootstrap UCL					212.2
150	95% BCA Bootstrap UCL					213.9						
151	90% Chebyshev(Mean, Sd) UCL					221.4	95% Chebyshev(Mean, Sd) UCL					231
152	97.5% Chebyshev(Mean, Sd) UCL					244.3	99% Chebyshev(Mean, Sd) UCL					270.5
153												
154	Suggested UCL to Use											
155	95% Adjusted Gamma UCL					212.9						
156												

	A	B	C	D	E	F	G	H	I	J	K	L
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
158	Recommendations are based upon data size, data distribution, and skewness.											
159	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
160	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	D04.0120220412104237_02	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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ATTACHMENT C: LABORATORY CERTIFICATES

Company	AGON Environmental - Tunnel Spoil Testing	Project No	JC827	Project Manager	Craig Trimbur	Sampler(s)	ES, LR, HK - EP RISK
Address	Unit H76, 63-65 Turner St, Port Melbourne VIC 3207	Project Name	WQTP-Tunnel Ref:28 228 40482 055-Eurofin-21	EDD Format	Esdat	Handed over by	Emma.S.
Contact Name	Craig Trimbur David Lauson	Analytical Method: EPA 8210-GC (GC/MS) Spoil Sample Preparation Sulphate (SO4), Total Phosphate (PO4), Total Nitrate (NO3), Total Ammonia Nitrogen (TAN), Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Total Solids (TS), Total Organic Carbon (TOC), Total Organic Phosphorus (TOP), Total Organic Nitrogen (TON), Total Organic Halogens (TOH), Total Organic Chlorine (TOC), Total Organic Sulphur (TOS), Total Organic Nitrogen (TON), Total Organic Phosphorus (TOP), Total Organic Chlorine (TOC), Total Organic Sulphur (TOS)	SX: WQTP-01-TRH/PAH Phenols/ COP/POB/VOO/Vinyl Chloride/Mercury (As, Cd, Cr, Cu, Ni, Pb, Hg, Ag, Sn, Mo, Se, Zn)/ Cr+V/ Total Fluoride/ pH PFAS Extended Suite - 0 (1-5ug/kg) ASL P Ph 3 - PFAS 01-105 ug/l ASP Ph 3 - PFAS 01-105 ug/l				Email for Invoice: finance@agonenviro.com.au LabReports.TST@agonenviro.com.au Email for Results: LabReports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motheftlabresults@wqtp.com.au Amr.Kaur@globe-analytical.com.au
Phone No	+61 488 828 987 (Craig) +61 488 411 864 (David)						
Special Directions	Please provide an interim lab report if finalised report has not been provided by 14 days from sample receipt. Please provide eSRN along with other sample receipt documentation.						
Purchase Order							
Quote ID No	Agon WQTP TST	Containers		Required Turnaround Time (TAT)		<input type="checkbox"/> Overnight (reporting by 9am) <input type="checkbox"/> Same day <input type="checkbox"/> 1 day <input type="checkbox"/> 2 days <input type="checkbox"/> 3 days <input type="checkbox"/> Other	

Sl	Client Sample ID	Sampled Date/Time	Matrix	SO4	PO4	NO3	TAN	TDS	TSS	TS	TOC	TOP	TON	TOH	TOC	TOS	Other (Notes)	Sample Comments
1	SX_OB_28228482_08_18_SS_Primary_EUF	28/02/22 0818	S	X	X	X	X	X									1	
2	SX_OB_28228482_08_27_SS_Triplicate_EUF	28/02/22 0827	S	X	X	X	X	X									1	
3	SX_OB_28228482_11_17_SS_Primary_EUF	28/02/22 1217	S	X	X	X	X	X									1	
4	SX_OB_28228482_16_03_SS_Primary_EUF	28/02/22 1603	S	X	X	X	X	X									1	
5	SX_OB_28228482_16_04_SS_Duplicate_EUF	28/02/22 1604	S	X	X	X	X	X									1	
6	SX_OB_28228482_20_04_SS_Primary_EUF	28/02/22 2004	S	X	X	X	X	X									1	
7	SX_OB_28228483_03_56_SS_Primary_EUF	28/02/22 0356	S	X	X	X	X	X									1	
8	SX_OB_28228483_04_08_SR_Rinse_EUF	28/02/22 0408	W			X											1	
9	SX_OB_28228483_04_09_SB_Blank_EUF	03/02/22 0409	W			X											1	
10	SX_OB_28228483_07_56_SS_Triplicate_EUF	03/02/22 0756	S	X	X	X	X	X									1	
11	SX_OB_28228483_07_57_SS_Primary_EUF	03/02/22 0757	S	X	X	X	X	X									1	
12	SX_OB_28228483_11_02_SS_Primary_EUF	03/02/22 1102	S	X	X	X	X	X									1	
13	SX_OB_28228483_16_28_SB_Blank_EUF	28/02/22 1528	W			X											1	
14	SX_OB_28228483_16_30_SR_Rinse_EUF	28/02/22 1530	W			X											1	
15	SX_OB_28228483_16_31_SS_Primary_EUF	28/02/22 1601	S	X	X	X	X	X									1	
16	SX_OB_28228483_16_02_SS_Duplicate_EUF	28/02/22 1602	S	X	X	X	X	X									1	
	SX_OB_28228484_08_13_SS_Primary_EUF	28/02/22 2013	S	X	X	X	X	X									1	
	SX_OB_28228484_08_07_SS_Primary_EUF	28/02/22 0807	S	X	X	X	X	X									1	
	SX_OB_28228484_03_51_SS_Primary_EUF	28/02/22 0351	S	X	X	X	X	X									1	
Total Counts:				18	15	18	16	18									18	

Method of Shipment	<input checked="" type="checkbox"/> Courier #	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Postal	Name	Emma Stony	Signature	[Signature]	Date	09/04/22	Time	09:54am
Laboratory Use Only	Delivered By	Emily D	SYD BNE MEL PER ADL NTL DRW	Signature	[Signature]	Date	4/4/22	Time	2:50pm	Temperature	17.1
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date		Time		Report No	

Yes/No
17-3-02
17.1
Jalce
876879

Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



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: **David Lawson**

Report **876879-L**
Project name **20220404042056-Eurofin-21**
Project ID **JC0927**
Received Date **Apr 04, 2022**

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _Triplicate_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0004356	M22- Ap0004357	M22- Ap0004358	M22- Ap0004359
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.2	5.3	5.3	5.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	94	96	94	93
13C5-PFPeA (surr.)	1	%	89	83	84	91
13C5-PFHxA (surr.)	1	%	99	85	91	100
13C4-PFHpA (surr.)	1	%	78	73	75	78
13C8-PFOA (surr.)	1	%	80	73	74	74
13C5-PFNA (surr.)	1	%	77	72	77	74
13C6-PFDA (surr.)	1	%	83	84	85	82
13C2-PFUnDA (surr.)	1	%	70	71	74	72
13C2-PFDoDA (surr.)	1	%	114	106	118	120
13C2-PFTTeDA (surr.)	1	%	57	57	62	67

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _TriPLICATE_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0004356	M22- Ap0004357	M22- Ap0004358	M22- Ap0004359
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	103	94	100	98
D3-N-MeFOSA (surr.)	1	%	130	74	129	98
D5-N-EtFOSA (surr.)	1	%	121	70	112	88
D7-N-MeFOSE (surr.)	1	%	79	69	74	72
D9-N-EtFOSE (surr.)	1	%	74	65	74	67
D5-N-EtFOSAA (surr.)	1	%	108	106	103	87
D3-N-MeFOSAA (surr.)	1	%	82	80	86	83
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	69	65	67	74
18O2-PFHxS (surr.)	1	%	92	74	76	96
13C8-PFOS (surr.)	1	%	76	73	78	80
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	61	67	63	62
13C2-6:2 FTSA (surr.)	1	%	77	104	108	80
13C2-8:2 FTSA (surr.)	1	%	68	76	78	63
13C2-10:2 FTSA (surr.)	1	%	69	63	77	75
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS TriPLICATE_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0004360	M22- Ap0004361	M22- Ap0004362	M22- Ap0004363
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.3	5.3	5.3	5.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	93	97	95
13C5-PFPeA (surr.)	1	%	96	90	82	98
13C5-PFHxA (surr.)	1	%	107	100	94	105
13C4-PFHpA (surr.)	1	%	81	81	76	80
13C8-PFOA (surr.)	1	%	81	77	76	75
13C5-PFNA (surr.)	1	%	83	82	79	76
13C6-PFDA (surr.)	1	%	90	87	85	83
13C2-PFUnDA (surr.)	1	%	76	81	77	73
13C2-PFDoDA (surr.)	1	%	127	122	123	117
13C2-PFTTeDA (surr.)	1	%	73	64	59	81
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	113	105	104	103
D3-N-MeFOSA (surr.)	1	%	148	115	143	144
D5-N-EtFOSA (surr.)	1	%	130	97	128	126
D7-N-MeFOSE (surr.)	1	%	84	73	84	80
D9-N-EtFOSE (surr.)	1	%	80	74	77	76
D5-N-EtFOSAA (surr.)	1	%	112	109	78	109
D3-N-MeFOSAA (surr.)	1	%	108	86	71	100

Client Sample ID			SX_OB_20220 402_16_04_SS _Duplicate_EU F	SX_OB_20220 402_20_04_SS _Primary_EUF	SX_OB_20220 403_03_56_SS _Primary_EUF	SX_OB_20220 403_07_56_SS _Triuplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0004360	M22- Ap0004361	M22- Ap0004362	M22- Ap0004363
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	77	76	71	77
18O2-PFHxS (surr.)	1	%	105	84	76	92
13C8-PFOS (surr.)	1	%	82	80	85	83
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	62	63	62	62
13C2-6:2 FTSA (surr.)	1	%	85	98	123	78
13C2-8:2 FTSA (surr.)	1	%	76	74	85	71
13C2-10:2 FTSA (surr.)	1	%	64	77	60	74
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 403_07_57_SS _Primary_EUF	SX_OB_20220 403_11_52_SS _Primary_EUF	SX_OB_20220 403_16_01_SS _Primary_EUF	SX_OB_20220 403_16_02_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0004364	M22- Ap0004365	M22- Ap0004366	M22- Ap0004367
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.3	5.3	5.3	5.4

Client Sample ID			SX_OB_20220 403_07_57_SS _Primary_EUF	SX_OB_20220 403_11_52_SS _Primary_EUF	SX_OB_20220 403_16_01_SS _Primary_EUF	SX_OB_20220 403_16_02_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22- Ap0004364	M22- Ap0004365	M22- Ap0004366	M22- Ap0004367
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	94	90	94	122
13C5-PFPeA (surr.)	1	%	92	81	80	121
13C5-PFHxA (surr.)	1	%	103	81	96	112
13C4-PFHpA (surr.)	1	%	79	65	79	98
13C8-PFOA (surr.)	1	%	72	63	69	101
13C5-PFNA (surr.)	1	%	77	63	71	99
13C6-PFDA (surr.)	1	%	86	76	77	110
13C2-PFUnDA (surr.)	1	%	72	69	69	96
13C2-PFDoDA (surr.)	1	%	122	109	106	160
13C2-PFTTeDA (surr.)	1	%	62	68	56	93
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-ethylperfluorooctanesulfonamidoacetic 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	%	102	94	100	134
D3-N-MeFOSA (surr.)	1	%	117	132	117	152
D5-N-EtFOSA (surr.)	1	%	98	118	98	129
D7-N-MeFOSE (surr.)	1	%	80	70	65	93
D9-N-EtFOSE (surr.)	1	%	73	69	71	94
D5-N-EtFOSAA (surr.)	1	%	101	83	76	112
D3-N-MeFOSAA (surr.)	1	%	82	79	67	110
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220_403_07_57_SS_Primary_EUF	SX_OB_20220_403_11_52_SS_Primary_EUF	SX_OB_20220_403_16_01_SS_Primary_EUF	SX_OB_20220_403_16_02_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0
Eurofins Sample No.			M22-Ap0004364	M22-Ap0004365	M22-Ap0004366	M22-Ap0004367
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	76	57	72	87
18O2-PFHxS (surr.)	1	%	93	52	78	109
13C8-PFOS (surr.)	1	%	83	68	76	102
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	60	58	59	84
13C2-6:2 FTSA (surr.)	1	%	72	126	81	126
13C2-8:2 FTSA (surr.)	1	%	74	89	63	109
13C2-10:2 FTSA (surr.)	1	%	74	64	65	92
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220_403_20_13_SS_Primary_EUF	SX_OB_20220_404_00_07_SS_Primary_EUF	SX_OB_20220_404_03_51_SS_Primary_EUF	SX_OB_20220_402_08_10_SS_Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0004368	M22-Ap0004369	M22-Ap0004370	M22-Ap0004371
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	6.4
pH (off)	0.1	pH Units	5.3	5.0	5.0	8.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF	SX_OB_20220 402_08_10_SS _Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004368	M22- Ap0004369	M22- Ap0004370	M22- Ap0004371
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	%	94	93	90	92
13C5-PFPeA (surr.)	1	%	90	87	89	90
13C5-PFHxA (surr.)	1	%	93	87	86	94
13C4-PFHpA (surr.)	1	%	76	73	73	81
13C8-PFOA (surr.)	1	%	76	63	67	77
13C5-PFNA (surr.)	1	%	81	71	63	77
13C6-PFDA (surr.)	1	%	87	80	66	80
13C2-PFUnDA (surr.)	1	%	84	71	60	73
13C2-PFDoDA (surr.)	1	%	122	115	90	115
13C2-PFTeDA (surr.)	1	%	72	78	51	62
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	114	97	81	94
D3-N-MeFOSA (surr.)	1	%	141	143	128	154
D5-N-EtFOSA (surr.)	1	%	125	127	120	136
D7-N-MeFOSE (surr.)	1	%	89	77	67	74
D9-N-EtFOSE (surr.)	1	%	79	71	66	69
D5-N-EtFOSAA (surr.)	1	%	120	97	78	103
D3-N-MeFOSAA (surr.)	1	%	104	83	85	101
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	67	65	68	69
18O2-PFHxS (surr.)	1	%	78	52	66	107
13C8-PFOS (surr.)	1	%	84	75	67	79

Client Sample ID			SX_OB_20220403_20_13_SS_Primary_EUF	SX_OB_20220404_00_07_SS_Primary_EUF	SX_OB_20220404_03_51_SS_Primary_EUF	SX_OB_20220402_08_10_SS_Primary_EUF
Sample Matrix			AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - pH 5.0	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0004368	M22-Ap0004369	M22-Ap0004370	M22-Ap0004371
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	64	59	62	63
13C2-6:2 FTSA (surr.)	1	%	124	132	86	60
13C2-8:2 FTSA (surr.)	1	%	91	96	57	60
13C2-10:2 FTSA (surr.)	1	%	83	69	42	62
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220402_08_27_SS_Triplicate_EUF	SX_OB_20220402_13_17_SS_Primary_EUF	SX_OB_20220402_16_03_SS_Primary_EUF	SX_OB_20220402_16_04_SS_Duplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ap0004372	M22-Ap0004373	M22-Ap0004374	M22-Ap0004375
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	6.4	6.4	6.4	6.4
pH (off)	0.1	pH Units	8.7	8.7	8.6	8.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	94	87	91	93

Client Sample ID			SX_OB_20220 402_08_27_SS _TriPLICATE_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF	SX_OB_20220 402_16_04_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004372	M22- Ap0004373	M22- Ap0004374	M22- Ap0004375
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	87	81	82	93
13C5-PFHxA (surr.)	1	%	81	80	91	96
13C4-PFHpA (surr.)	1	%	80	74	76	75
13C8-PFOA (surr.)	1	%	75	65	69	66
13C5-PFNA (surr.)	1	%	81	71	70	70
13C6-PFDA (surr.)	1	%	91	73	69	75
13C2-PFUnDA (surr.)	1	%	83	68	66	66
13C2-PFDoDA (surr.)	1	%	120	112	101	113
13C2-PFTeDA (surr.)	1	%	72	57	59	68
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	89	83	91
D3-N-MeFOSA (surr.)	1	%	163	88	96	96
D5-N-EtFOSA (surr.)	1	%	150	87	94	83
D7-N-MeFOSE (surr.)	1	%	76	59	58	61
D9-N-EtFOSE (surr.)	1	%	75	63	63	62
D5-N-EtFOSAA (surr.)	1	%	120	108	95	113
D3-N-MeFOSAA (surr.)	1	%	112	85	82	105
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	64	60	68	72
18O2-PFHxS (surr.)	1	%	78	71	96	91
13C8-PFOS (surr.)	1	%	78	72	70	68

Client Sample ID			SX_OB_20220 402_08_27_SS _TriPLICATE_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF	SX_OB_20220 402_16_04_SS _Duplicate_EU F
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004372	M22- Ap0004373	M22- Ap0004374	M22- Ap0004375
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	62	59	58	56
13C2-6:2 FTSA (surr.)	1	%	71	65	51	54
13C2-8:2 FTSA (surr.)	1	%	65	54	50	64
13C2-10:2 FTSA (surr.)	1	%	71	60	46	68
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 402_20_04_SS _Primary_EUF	SX_OB_20220 403_03_56_SS _Primary_EUF	SX_OB_20220 403_07_56_SS _TriPLICATE_EU F	SX_OB_20220 403_07_57_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004376	M22- Ap0004377	M22- Ap0004378	M22- Ap0004379
Date Sampled			Apr 02, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	6.4	6.4	6.4	6.4
pH (off)	0.1	pH Units	8.7	8.7	8.7	8.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	94	95	96

Client Sample ID			SX_OB_20220 402_20_04_SS _Primary_EUF	SX_OB_20220 403_03_56_SS _Primary_EUF	SX_OB_20220 403_07_56_SS _Triplicate_EU F	SX_OB_20220 403_07_57_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004376	M22- Ap0004377	M22- Ap0004378	M22- Ap0004379
Date Sampled			Apr 02, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	83	90	96	87
13C5-PFHxA (surr.)	1	%	84	89	107	104
13C4-PFHpA (surr.)	1	%	72	78	81	84
13C8-PFOA (surr.)	1	%	66	79	78	79
13C5-PFNA (surr.)	1	%	62	80	82	83
13C6-PFDA (surr.)	1	%	71	97	90	98
13C2-PFUnDA (surr.)	1	%	69	90	80	89
13C2-PFDoDA (surr.)	1	%	112	133	133	143
13C2-PFTeDA (surr.)	1	%	80	86	72	93
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	87	105	108	112
D3-N-MeFOSA (surr.)	1	%	100	119	153	144
D5-N-EtFOSA (surr.)	1	%	89	97	127	117
D7-N-MeFOSE (surr.)	1	%	66	74	68	79
D9-N-EtFOSE (surr.)	1	%	63	70	74	77
D5-N-EtFOSAA (surr.)	1	%	98	134	124	136
D3-N-MeFOSAA (surr.)	1	%	84	134	110	120
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	67	64	76	72
18O2-PFHxS (surr.)	1	%	65	67	88	95
13C8-PFOS (surr.)	1	%	67	87	83	88

Client Sample ID			SX_OB_20220 402_20_04_SS _Primary_EUF	SX_OB_20220 403_03_56_SS _Primary_EUF	SX_OB_20220 403_07_56_SS _Triplicate_EU F	SX_OB_20220 403_07_57_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004376	M22- Ap0004377	M22- Ap0004378	M22- Ap0004379
Date Sampled			Apr 02, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	59	60	62	65
13C2-6:2 FTSA (surr.)	1	%	80	108	66	74
13C2-8:2 FTSA (surr.)	1	%	65	87	71	84
13C2-10:2 FTSA (surr.)	1	%	63	63	68	79
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 403_11_52_SS _Primary_EUF	SX_OB_20220 403_16_01_SS _Primary_EUF	SX_OB_20220 403_16_02_SS _Duplicate_EU F	SX_OB_20220 403_20_13_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004380	M22- Ap0004381	M22- Ap0004382	M22- Ap0004383
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	6.4	6.4	6.4	6.4
pH (off)	0.1	pH Units	8.7	8.8	8.8	8.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	93	98	116	93

Client Sample ID			SX_OB_20220 403_11_52_SS _Primary_EUF	SX_OB_20220 403_16_01_SS _Primary_EUF	SX_OB_20220 403_16_02_SS _Duplicate_EU F	SX_OB_20220 403_20_13_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004380	M22- Ap0004381	M22- Ap0004382	M22- Ap0004383
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	90	91	99	90
13C5-PFHxA (surr.)	1	%	86	99	99	89
13C4-PFHpA (surr.)	1	%	74	80	118	81
13C8-PFOA (surr.)	1	%	77	81	129	80
13C5-PFNA (surr.)	1	%	75	84	147	78
13C6-PFDA (surr.)	1	%	90	92	124	93
13C2-PFUnDA (surr.)	1	%	78	95	130	93
13C2-PFDoDA (surr.)	1	%	132	137	121	141
13C2-PFTeDA (surr.)	1	%	97	117	133	85
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	141	113
D3-N-MeFOSA (surr.)	1	%	111	141	117	146
D5-N-EtFOSA (surr.)	1	%	94	118	116	128
D7-N-MeFOSE (surr.)	1	%	68	76	72	79
D9-N-EtFOSE (surr.)	1	%	68	75	117	77
D5-N-EtFOSAA (surr.)	1	%	138	159	149	139
D3-N-MeFOSAA (surr.)	1	%	107	130	152	130
Perfluoroalkyl sulfonic acids (PFSAAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	61	76	96	68
18O2-PFHxS (surr.)	1	%	61	91	98	72
13C8-PFOS (surr.)	1	%	81	86	135	84

Client Sample ID			SX_OB_20220 403_11_52_SS _Primary_EUF	SX_OB_20220 403_16_01_SS _Primary_EUF	SX_OB_20220 403_16_02_SS _Duplicate_EU F	SX_OB_20220 403_20_13_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004380	M22- Ap0004381	M22- Ap0004382	M22- Ap0004383
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	60	58	104	59
13C2-6:2 FTSA (surr.)	1	%	132	78	128	89
13C2-8:2 FTSA (surr.)	1	%	97	74	128	84
13C2-10:2 FTSA (surr.)	1	%	73	84	127	87
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004384	M22- Ap0004385
Date Sampled			Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit		
AUS Leaching Procedure				
Leachate Fluid ^{C01}		comment	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	6.4	6.4
pH (off)	0.1	pH Units	8.8	8.7
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	92

Client Sample ID			SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004384	M22- Ap0004385
Date Sampled			Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFPeA (surr.)	1	%	85	88
13C5-PFHxA (surr.)	1	%	90	92
13C4-PFHpA (surr.)	1	%	75	74
13C8-PFOA (surr.)	1	%	70	75
13C5-PFNA (surr.)	1	%	77	79
13C6-PFDA (surr.)	1	%	91	84
13C2-PFUnDA (surr.)	1	%	67	84
13C2-PFDoDA (surr.)	1	%	120	124
13C2-PFTeDA (surr.)	1	%	71	73
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	109	102
D3-N-MeFOSA (surr.)	1	%	125	115
D5-N-EtFOSA (surr.)	1	%	103	94
D7-N-MeFOSE (surr.)	1	%	74	71
D9-N-EtFOSE (surr.)	1	%	72	72
D5-N-EtFOSAA (surr.)	1	%	127	128
D3-N-MeFOSAA (surr.)	1	%	108	117
Perfluoroalkyl sulfonic acids (PFSA)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	63	66
18O2-PFHxS (surr.)	1	%	51	70
13C8-PFOS (surr.)	1	%	75	82

Client Sample ID			SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22- Ap0004384	M22- Ap0004385
Date Sampled			Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	63	60
13C2-6:2 FTSA (surr.)	1	%	138	101
13C2-8:2 FTSA (surr.)	1	%	89	86
13C2-10:2 FTSA (surr.)	1	%	65	67
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
AUS Leaching Procedure			
pH (initial) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Apr 05, 2022	0 Days
pH (Leachate fluid) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Apr 05, 2022	0 Days
pH (off) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Apr 05, 2022	0 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 04, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 4, 2022 2:50 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	876879	Due:	Apr 11, 2022
Project Name:	20220404042056-Eurofin-21	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220402_08_10_S_S_Primary_EU_F	Apr 02, 2022	8:10AM	Soil	M22-Ap0004337		X	X	X
2	SX_OB_20220402_08_27_S_S_Triplicate_EUF	Apr 02, 2022	8:27AM	Soil	M22-Ap0004338		X	X	X
3	SX_OB_20220402_13_17_S_S_Primary_EU_F	Apr 02, 2022	1:17PM	Soil	M22-Ap0004339		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
4	SX_OB_20220402_16_03_SS_Primary_EU_F	Apr 02, 2022	4:03PM	Soil	M22-Ap0004340		X	X	X
5	SX_OB_20220402_16_04_SS_Duplicate_EUF	Apr 02, 2022	4:04PM	Soil	M22-Ap0004341		X	X	X
6	SX_OB_20220402_20_04_SS_Primary_EU_F	Apr 02, 2022	8:04PM	Soil	M22-Ap0004342		X	X	X
7	SX_OB_20220403_03_56_S	Apr 03, 2022	3:56AM	Soil	M22-Ap0004343		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
8	SX_OB_20220 403_04_08_S R_Rinsate_EU F	Apr 03, 2022	4:08AM	Water	M22- Ap0004344			X	
9	SX_OB_20220 403_04_09_S B_Blank_EUF	Apr 03, 2022	4:09AM	Water	M22- Ap0004345			X	
10	SX_OB_20220 403_07_56_S S_Triplicate_E UF	Apr 03, 2022	7:56AM	Soil	M22- Ap0004346		X	X	X
11	SX_OB_20220	Apr 03, 2022	7:57AM	Soil	M22-		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	403_07_57_S S_Primary_EU F				Ap0004347				
12	SX_OB_20220 403_11_52_S S_Primary_EU F	Apr 03, 2022	11:52AM	Soil	M22- Ap0004348		X	X	X
13	SX_OB_20220 403_15_28_S B_Blank_EUF	Apr 03, 2022	3:28PM	Water	M22- Ap0004349			X	
14	SX_OB_20220 403_15_30_S R_Rinsate_EU F	Apr 03, 2022	3:30PM	Water	M22- Ap0004350			X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
15	SX_OB_20220403_16_01_SS_Primary_EU_F	Apr 03, 2022	4:01PM	Soil	M22-Ap0004351		X	X	X
16	SX_OB_20220403_16_02_SS_Duplicate_EU_F	Apr 03, 2022	4:02PM	Soil	M22-Ap0004352		X	X	X
17	SX_OB_20220403_20_13_SS_Primary_EU_F	Apr 03, 2022	8:13PM	Soil	M22-Ap0004353		X	X	X
18	SX_OB_20220404_00_07_S	Apr 04, 2022	12:07AM	Soil	M22-Ap0004354		X	X	X

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Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
19	SX_OB_20220 404_03_51_S S_Primary_EU F	Apr 04, 2022	3:51AM	Soil	M22- Ap0004355		X	X	X
20	SX_OB_20220 402_08_10_S S_Primary_EU F	Apr 02, 2022	8:10AM	AUS Leachate - pH 5.0	M22- Ap0004356	X		X	
21	SX_OB_20220 402_08_27_S S_Triplicate_E UF	Apr 02, 2022	8:27AM	AUS Leachate - pH 5.0	M22- Ap0004357	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 4, 2022 2:50 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	876879	Due:	Apr 11, 2022
Project Name:	20220404042056-Eurofin-21	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
22	SX_OB_20220402_13_17_S_S_Primary_EU_F	Apr 02, 2022	1:17PM	AUS Leachate - pH 5.0	M22-Ap0004358	X		X	
23	SX_OB_20220402_16_03_S_S_Primary_EU_F	Apr 02, 2022	4:03PM	AUS Leachate - pH 5.0	M22-Ap0004359	X		X	
24	SX_OB_20220402_16_04_S_S_Duplicate_EUF	Apr 02, 2022	4:04PM	AUS Leachate - pH 5.0	M22-Ap0004360	X		X	
25	SX_OB_20220402_20_04_S	Apr 02, 2022	8:04PM	AUS Leachate - pH 5.0	M22-Ap0004361	X		X	

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Contact Name: Agon Lab Reports (Spoil Project)

Project Name: 20220404042056-Eurofin-21
Project ID: JC0927

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
26	SX_OB_20220 403_03_56_S S_Primary_EU F	Apr 03, 2022	3:56AM	AUS Leachate - pH 5.0	M22- Ap0004362	X		X	
27	SX_OB_20220 403_07_56_S S_Triplicate_E UF	Apr 03, 2022	7:56AM	AUS Leachate - pH 5.0	M22- Ap0004363	X		X	
28	SX_OB_20220 403_07_57_S S_Primary_EU F	Apr 03, 2022	7:57AM	AUS Leachate - pH 5.0	M22- Ap0004364	X		X	

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Project Name:	20220404042056-Eurofin-21	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
29	SX_OB_20220403_11_52_S_S_Primary_EU_F	Apr 03, 2022	11:52AM	AUS Leachate - pH 5.0	M22-Ap0004365	X		X	
30	SX_OB_20220403_16_01_S_S_Primary_EU_F	Apr 03, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ap0004366	X		X	
31	SX_OB_20220403_16_02_S_S_Duplicate_EUF	Apr 03, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ap0004367	X		X	
32	SX_OB_20220403_20_13_S	Apr 03, 2022	8:13PM	AUS Leachate - pH 5.0	M22-Ap0004368	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
33	SX_OB_20220 404_00_07_S S_Primary_EU F	Apr 04, 2022	12:07AM	AUS Leachate - pH 5.0	M22- Ap0004369	X		X	
34	SX_OB_20220 404_03_51_S S_Primary_EU F	Apr 04, 2022	3:51AM	AUS Leachate - pH 5.0	M22- Ap0004370	X		X	
35	SX_OB_20220 402_08_10_S S_Primary_EU F	Apr 02, 2022	8:10AM	AUS Leachate - Reagent Water	M22- Ap0004371	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
36	SX_OB_20220402_08_27_S_S_Triplicate_EUF	Apr 02, 2022	8:27AM	AUS Leachate - Reagent Water	M22-Ap0004372	X		X	
37	SX_OB_20220402_13_17_S_S_Primary_EUF	Apr 02, 2022	1:17PM	AUS Leachate - Reagent Water	M22-Ap0004373	X		X	
38	SX_OB_20220402_16_03_S_S_Primary_EUF	Apr 02, 2022	4:03PM	AUS Leachate - Reagent Water	M22-Ap0004374	X		X	
39	SX_OB_20220402_16_04_S	Apr 02, 2022	4:04PM	AUS Leachate - Reagent	M22-Ap0004375	X		X	

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Contact Name: Agon Lab Reports (Spoil Project)

Project Name: 20220404042056-Eurofin-21
Project ID: JC0927

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF			Water					
40	SX_OB_20220402_20_04_S_S_Primary_EUF	Apr 02, 2022	8:04PM	AUS Leachate - Reagent Water	M22-Ap0004376	X		X	
41	SX_OB_20220403_03_56_S_S_Primary_EUF	Apr 03, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Ap0004377	X		X	
42	SX_OB_20220403_07_56_S_S_Triplicate_EUF	Apr 03, 2022	7:56AM	AUS Leachate - Reagent Water	M22-Ap0004378	X		X	

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
43	SX_OB_20220403_07_57_S_S_Primary_EU_F	Apr 03, 2022	7:57AM	AUS Leachate - Reagent Water	M22-Ap0004379	X		X	
44	SX_OB_20220403_11_52_S_S_Primary_EU_F	Apr 03, 2022	11:52AM	AUS Leachate - Reagent Water	M22-Ap0004380	X		X	
45	SX_OB_20220403_16_01_S_S_Primary_EU_F	Apr 03, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ap0004381	X		X	
46	SX_OB_20220403_16_02_S	Apr 03, 2022	4:02PM	AUS Leachate - Reagent	M22-Ap0004382	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF			Water					
47	SX_OB_20220403_20_13_S_S_Primary_EUF	Apr 03, 2022	8:13PM	AUS Leachate - Reagent Water	M22-Ap0004383	X		X	
48	SX_OB_20220404_00_07_S_S_Primary_EUF	Apr 04, 2022	12:07AM	AUS Leachate - Reagent Water	M22-Ap0004384	X		X	
49	SX_OB_20220404_03_51_S_S_Primary_EUF	Apr 04, 2022	3:51AM	AUS Leachate - Reagent Water	M22-Ap0004385	X		X	

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Sample Detail	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IMRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	30	15	49	15

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
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)	%	100		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	111		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	113		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	107		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	111		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	99		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	114		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	97		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	121		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	113		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	115		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	123			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	128			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	149			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	99			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	112			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	87			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	89			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA)								
Perfluorobutanesulfonic acid (PFBS)	%	112			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	119			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	120			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	116			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	110			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	123			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	118			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	89			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	96			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	75			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	70			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)								
				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances								
				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0004367	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0004367	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0004370	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0004370	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0004382	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0004382	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
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:

Michael Cassidy	Analytical Services Manager
Mary Makarios	Senior Analyst (NSW)
Joseph Edouard	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



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Accreditation Number 1261
Site Number 1254

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

Attention: **David Lawson**

Report **876879-S**
Project name **20220404042056-Eurofin-21**
Project ID **JC0927**
Received Date **Apr 04, 2022**

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _Triplicate_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004337	M22- Ap0004338	M22- Ap0004339	M22- Ap0004340
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _Triplicate_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004337	M22- Ap0004338	M22- Ap0004339	M22- Ap0004340
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	62	71	94	64
Toluene-d8 (surr.)	1	%	68	79	102	70
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _Triplicate_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004337	M22- Ap0004338	M22- Ap0004339	M22- Ap0004340
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	62	69	58	61
p-Terphenyl-d14 (surr.)	1	%	55	111	62	64
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	79	79	71	69
Tetrachloro-m-xylene (surr.)	1	%	87	58	87	82

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _Triplicate_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004337	M22- Ap0004338	M22- Ap0004339	M22- Ap0004340
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	79	79	71	69
Tetrachloro-m-xylene (surr.)	1	%	87	58	87	82
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	34	69	41	54
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	240	< 100	400	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.5	7.8	8.4	8.5
% Moisture						
% Moisture	1	%	28	31	29	28
Heavy Metals						
Arsenic	2	mg/kg	42	31	32	32
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	130	150	160
Copper	5	mg/kg	81	67	74	84
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _Triplicate_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004337	M22- Ap0004338	M22- Ap0004339	M22- Ap0004340
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	230	220	220	250
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	170	140	150	170
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	105	69	103
13C5-PFPeA (surr.)	1	%	76	87	64	78
13C5-PFHxA (surr.)	1	%	100	91	63	98
13C4-PFHpA (surr.)	1	%	91	92	62	94
13C8-PFOA (surr.)	1	%	102	111	68	97
13C5-PFNA (surr.)	1	%	70	75	52	80
13C6-PFDA (surr.)	1	%	99	105	62	109
13C2-PFUnDA (surr.)	1	%	123	134	82	117
13C2-PFDoDA (surr.)	1	%	105	97	79	100
13C2-PFTeDA (surr.)	1	%	93	93	69	109
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	83	48	19	14
D3-N-MeFOSA (surr.)	1	%	118	111	70	122
D5-N-EtFOSA (surr.)	1	%	128	130	91	132
D7-N-MeFOSE (surr.)	1	%	98	114	57	90
D9-N-EtFOSE (surr.)	1	%	104	86	66	96
D5-N-EtFOSAA (surr.)	1	%	117	124	164	99
D3-N-MeFOSAA (surr.)	1	%	139	130	87	111

Client Sample ID			SX_OB_20220 402_08_10_SS _Primary_EUF	SX_OB_20220 402_08_27_SS _TriPLICATE_EU F	SX_OB_20220 402_13_17_SS _Primary_EUF	SX_OB_20220 402_16_03_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004337	M22- Ap0004338	M22- Ap0004339	M22- Ap0004340
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 02, 2022	Apr 02, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	79	78	55	82
18O2-PFHxS (surr.)	1	%	76	76	55	84
13C8-PFOS (surr.)	1	%	75	80	51	67
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	109	138	77	102
13C2-6:2 FTSA (surr.)	1	%	103	81	62	78
13C2-8:2 FTSA (surr.)	1	%	117	104	69	108
13C2-10:2 FTSA (surr.)	1	%	142	67	86	106
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 402_16_04_SS _Duplicate_EU F	SX_OB_20220 402_20_04_SS _Primary_EUF	SX_OB_20220 403_03_56_SS _Primary_EUF	SX_OB_20220 403_07_56_SS _TriPLICATE_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS Triuplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS Triuplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Volatiles Organics						
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	56	80	62	74
Toluene-d8 (surr.)	1	%	63	80	66	78
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	58	57	59	70
p-Terphenyl-d14 (surr.)	1	%	56	141	56	135

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS Triuplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	78	80	81	110
Tetrachloro-m-xylene (surr.)	1	%	86	56	92	54
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	78	80	81	110
Tetrachloro-m-xylene (surr.)	1	%	86	56	92	54
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS Triuplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	35	79	39	70
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	220	< 100	380	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.7	8.4	8.4	8.5
% Moisture						
% Moisture	1	%	26	28	26	30
Heavy Metals						
Arsenic	2	mg/kg	27	14	17	27
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	160	140	130	140
Copper	5	mg/kg	72	58	78	71
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	210	180	210	210
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	140	110	130	130
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	102	97	98
13C5-PFPeA (surr.)	1	%	80	81	92	78
13C5-PFHxA (surr.)	1	%	94	91	86	93

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS Triuplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	92	90	85	90
13C8-PFOA (surr.)	1	%	94	99	87	95
13C5-PFNA (surr.)	1	%	86	92	69	92
13C6-PFDA (surr.)	1	%	87	104	87	98
13C2-PFUnDA (surr.)	1	%	107	113	122	111
13C2-PFDoDA (surr.)	1	%	101	100	100	86
13C2-PFTeDA (surr.)	1	%	99	91	107	88
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	18	76	18	172
D3-N-MeFOSA (surr.)	1	%	97	116	103	112
D5-N-EtFOSA (surr.)	1	%	122	129	128	132
D7-N-MeFOSE (surr.)	1	%	98	126	116	106
D9-N-EtFOSE (surr.)	1	%	94	91	93	88
D5-N-EtFOSAA (surr.)	1	%	136	112	127	112
D3-N-MeFOSAA (surr.)	1	%	121	155	106	96
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	73	78	74	78
18O2-PFHxS (surr.)	1	%	86	73	76	62
13C8-PFOS (surr.)	1	%	69	87	65	92
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	93	117	85	106
13C2-6:2 FTSA (surr.)	1	%	83	111	62	175

Client Sample ID			SX_OB_20220 402_16_04_SS Duplicate_EU F	SX_OB_20220 402_20_04_SS Primary_EUF	SX_OB_20220 403_03_56_SS Primary_EUF	SX_OB_20220 403_07_56_SS Triuplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004341	M22- Ap0004342	M22- Ap0004343	M22- Ap0004346
Date Sampled			Apr 02, 2022	Apr 02, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-8:2 FTSA (surr.)	1	%	121	109	90	103
13C2-10:2 FTSA (surr.)	1	%	96	47	81	33
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 403_07_57_SS Primary_EUF	SX_OB_20220 403_11_52_SS Primary_EUF	SX_OB_20220 403_16_01_SS Primary_EUF	SX_OB_20220 403_16_02_SS Duplicate_EU F
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004347	M22- Ap0004348	M22- Ap0004351	M22- Ap0004352
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004347	M22- Ap0004348	M22- Ap0004351	M22- Ap0004352
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	61	66	70	93
Toluene-d8 (surr.)	1	%	67	71	74	99

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004347	M22- Ap0004348	M22- Ap0004351	M22- Ap0004352
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	62	59	65	55
p-Terphenyl-d14 (surr.)	1	%	62	58	62	54
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004347	M22- Ap0004348	M22- Ap0004351	M22- Ap0004352
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	83	69	75	68
Tetrachloro-m-xylene (surr.)	1	%	92	92	52	69
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	83	69	75	68
Tetrachloro-m-xylene (surr.)	1	%	92	92	52	69
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	37	37	66	67
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	390	590	1000
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.8	8.5	8.5	7.8
% Moisture						
% Moisture	1	%	29	25	28	24

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004347	M22- Ap0004348	M22- Ap0004351	M22- Ap0004352
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	26	19	24	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	130	140	170	190
Copper	5	mg/kg	69	70	88	100
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	210	200	280	310
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	130	130	160	180
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 (PFTriDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	96	94	95	96
13C5-PFPeA (surr.)	1	%	92	56	66	54
13C5-PFHxA (surr.)	1	%	90	79	90	90
13C4-PFHpA (surr.)	1	%	85	79	83	86
13C8-PFOA (surr.)	1	%	95	91	92	88
13C5-PFNA (surr.)	1	%	63	79	70	76
13C6-PFDA (surr.)	1	%	91	103	101	83
13C2-PFUnDA (surr.)	1	%	101	110	114	100
13C2-PFDoDA (surr.)	1	%	102	87	89	86
13C2-PFTeDA (surr.)	1	%	95	89	79	84
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	29	23	23	104

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004347	M22- Ap0004348	M22- Ap0004351	M22- Ap0004352
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	106	104	104	105
D5-N-EtFOSA (surr.)	1	%	124	120	127	115
D7-N-MeFOSE (surr.)	1	%	110	74	104	88
D9-N-EtFOSE (surr.)	1	%	85	82	76	83
D5-N-EtFOSAA (surr.)	1	%	115	60	12	110
D3-N-MeFOSAA (surr.)	1	%	120	64	125	100
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	80	69	73	72
18O2-PFHxS (surr.)	1	%	86	102	82	70
13C8-PFOS (surr.)	1	%	66	85	67	72
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	68	75	71	67
13C2-6:2 FTSA (surr.)	1	%	58	52	55	66
13C2-8:2 FTSA (surr.)	1	%	81	94	82	94
13C2-10:2 FTSA (surr.)	1	%	114	96	94	125
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004353	M22- Ap0004354	M22- Ap0004355
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
Volatile Organics					
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004353	M22- Ap0004354	M22- Ap0004355
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit			
Volatile Organics					
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	81	69	74
Toluene-d8 (surr.)	1	%	87	72	79
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004353	M22- Ap0004354	M22- Ap0004355
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	55	80	56
p-Terphenyl-d14 (surr.)	1	%	63	116	50
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	67	131	67
Tetrachloro-m-xylene (surr.)	1	%	65	59	89
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	67	131	67
Tetrachloro-m-xylene (surr.)	1	%	65	59	89
Phenols (Halogenated)					
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004353	M22- Ap0004354	M22- Ap0004355
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit			
Phenols (Halogenated)					
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1
Phenols (non-Halogenated)					
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5
2-Nitrophenol	1.0	mg/kg	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	64	64	64
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20
Chromium (hexavalent)					
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1
Cyanide (total)					
Cyanide (total)	5	mg/kg	< 5	< 5	< 5
Fluoride (Total)					
Fluoride (Total)	100	mg/kg	360	< 100	360
pH (1:5 Aqueous extract at 25°C as rec.)					
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.6	8.5	8.1
% Moisture					
% Moisture	1	%	30	28	29
Heavy Metals					
Arsenic	2	mg/kg	19	18	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	160	120	120
Copper	5	mg/kg	84	61	65
Lead	5	mg/kg	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5
Nickel	5	mg/kg	280	190	200
Selenium	2	mg/kg	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10
Zinc	5	mg/kg	150	110	120
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004353	M22- Ap0004354	M22- Ap0004355
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	95	99	95
13C5-PFPeA (surr.)	1	%	99	68	65
13C5-PFHxA (surr.)	1	%	85	71	85
13C4-PFHpA (surr.)	1	%	81	86	80
13C8-PFOA (surr.)	1	%	91	97	90
13C5-PFNA (surr.)	1	%	68	82	70
13C6-PFDA (surr.)	1	%	103	104	87
13C2-PFUnDA (surr.)	1	%	92	124	107
13C2-PFDoDA (surr.)	1	%	89	102	82
13C2-PFTeDA (surr.)	1	%	84	95	84
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	40	115	26
D3-N-MeFOSA (surr.)	1	%	95	103	105
D5-N-EtFOSA (surr.)	1	%	121	129	121
D7-N-MeFOSE (surr.)	1	%	96	87	83
D9-N-EtFOSE (surr.)	1	%	85	93	80
D5-N-EtFOSAA (surr.)	1	%	81	140	93
D3-N-MeFOSAA (surr.)	1	%	121	127	97
Perfluoroalkyl sulfonic acids (PFSA)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	72	77	73
18O2-PFHxS (surr.)	1	%	81	53	98
13C8-PFOS (surr.)	1	%	79	70	69

Client Sample ID			SX_OB_20220 403_20_13_SS _Primary_EUF	SX_OB_20220 404_00_07_SS _Primary_EUF	SX_OB_20220 404_03_51_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M22- Ap0004353	M22- Ap0004354	M22- Ap0004355
Date Sampled			Apr 03, 2022	Apr 04, 2022	Apr 04, 2022
Test/Reference	LOR	Unit			
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	73	147	72
13C2-6:2 FTSA (surr.)	1	%	67	176	65
13C2-8:2 FTSA (surr.)	1	%	90	87	96
13C2-10:2 FTSA (surr.)	1	%	74	34	93
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
IWRG 621 WGTP Suite			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Apr 05, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Apr 05, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Apr 05, 2022	14 Days
Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS	Melbourne	Apr 05, 2022	7 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Apr 05, 2022	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Apr 05, 2022	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Apr 05, 2022	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Apr 05, 2022	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Apr 05, 2022	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Apr 05, 2022	14 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Apr 05, 2022	28 Days
Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	Apr 06, 2022	14 Days
Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE - Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC	Melbourne	Apr 06, 2022	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	Apr 05, 2022	7 Days
Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Apr 05, 2022	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Apr 04, 2022	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 05, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Apr 04, 2022	

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Project Name:	20220404042056-Eurofin-21	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220402_08_10_S_S_Primary_EU F	Apr 02, 2022	8:10AM	Soil	M22-Ap0004337		X	X	X
2	SX_OB_20220402_08_27_S_S_Triplicate_EU F	Apr 02, 2022	8:27AM	Soil	M22-Ap0004338		X	X	X
3	SX_OB_20220402_13_17_S_S_Primary_EU F	Apr 02, 2022	1:17PM	Soil	M22-Ap0004339		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
4	SX_OB_20220402_16_03_SS_Primary_EU_F	Apr 02, 2022	4:03PM	Soil	M22-Ap0004340		X	X	X
5	SX_OB_20220402_16_04_SS_Duplicate_EUF	Apr 02, 2022	4:04PM	Soil	M22-Ap0004341		X	X	X
6	SX_OB_20220402_20_04_SS_Primary_EU_F	Apr 02, 2022	8:04PM	Soil	M22-Ap0004342		X	X	X
7	SX_OB_20220403_03_56_S	Apr 03, 2022	3:56AM	Soil	M22-Ap0004343		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
8	SX_OB_20220 403_04_08_S R_Rinsate_EU F	Apr 03, 2022	4:08AM	Water	M22- Ap0004344			X	
9	SX_OB_20220 403_04_09_S B_Blank_EUF	Apr 03, 2022	4:09AM	Water	M22- Ap0004345			X	
10	SX_OB_20220 403_07_56_S S_Triplicate_E UF	Apr 03, 2022	7:56AM	Soil	M22- Ap0004346		X	X	X
11	SX_OB_20220	Apr 03, 2022	7:57AM	Soil	M22-		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	403_07_57_S S_Primary_EU F				Ap0004347				
12	SX_OB_20220 403_11_52_S S_Primary_EU F	Apr 03, 2022	11:52AM	Soil	M22- Ap0004348		X	X	X
13	SX_OB_20220 403_15_28_S B_Blank_EUF	Apr 03, 2022	3:28PM	Water	M22- Ap0004349			X	
14	SX_OB_20220 403_15_30_S R_Rinsate_EU F	Apr 03, 2022	3:30PM	Water	M22- Ap0004350			X	

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
15	SX_OB_20220403_16_01_SS_Primary_EU_F	Apr 03, 2022	4:01PM	Soil	M22-Ap0004351		X	X	X
16	SX_OB_20220403_16_02_SS_Duplicate_EU_F	Apr 03, 2022	4:02PM	Soil	M22-Ap0004352		X	X	X
17	SX_OB_20220403_20_13_SS_Primary_EU_F	Apr 03, 2022	8:13PM	Soil	M22-Ap0004353		X	X	X
18	SX_OB_20220404_00_07_S	Apr 04, 2022	12:07AM	Soil	M22-Ap0004354		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
19	SX_OB_20220 404_03_51_S S_Primary_EU F	Apr 04, 2022	3:51AM	Soil	M22- Ap0004355		X	X	X
20	SX_OB_20220 402_08_10_S S_Primary_EU F	Apr 02, 2022	8:10AM	AUS Leachate - pH 5.0	M22- Ap0004356	X		X	
21	SX_OB_20220 402_08_27_S S_Triplicate_E UF	Apr 02, 2022	8:27AM	AUS Leachate - pH 5.0	M22- Ap0004357	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
22	SX_OB_20220402_13_17_S_S_Primary_EU_F	Apr 02, 2022	1:17PM	AUS Leachate - pH 5.0	M22-Ap0004358	X		X	
23	SX_OB_20220402_16_03_S_S_Primary_EU_F	Apr 02, 2022	4:03PM	AUS Leachate - pH 5.0	M22-Ap0004359	X		X	
24	SX_OB_20220402_16_04_S_S_Duplicate_EUF	Apr 02, 2022	4:04PM	AUS Leachate - pH 5.0	M22-Ap0004360	X		X	
25	SX_OB_20220402_20_04_S	Apr 02, 2022	8:04PM	AUS Leachate - pH 5.0	M22-Ap0004361	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
26	SX_OB_20220 403_03_56_S S_Primary_EU F	Apr 03, 2022	3:56AM	AUS Leachate - pH 5.0	M22- Ap0004362	X		X	
27	SX_OB_20220 403_07_56_S S_Triplicate_E UF	Apr 03, 2022	7:56AM	AUS Leachate - pH 5.0	M22- Ap0004363	X		X	
28	SX_OB_20220 403_07_57_S S_Primary_EU F	Apr 03, 2022	7:57AM	AUS Leachate - pH 5.0	M22- Ap0004364	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
29	SX_OB_20220403_11_52_S_S_Primary_EU_F	Apr 03, 2022	11:52AM	AUS Leachate - pH 5.0	M22-Ap0004365	X		X	
30	SX_OB_20220403_16_01_S_S_Primary_EU_F	Apr 03, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ap0004366	X		X	
31	SX_OB_20220403_16_02_S_S_Duplicate_EUF	Apr 03, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ap0004367	X		X	
32	SX_OB_20220403_20_13_S	Apr 03, 2022	8:13PM	AUS Leachate - pH 5.0	M22-Ap0004368	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
33	SX_OB_20220 404_00_07_S S_Primary_EU F	Apr 04, 2022	12:07AM	AUS Leachate - pH 5.0	M22- Ap0004369	X		X	
34	SX_OB_20220 404_03_51_S S_Primary_EU F	Apr 04, 2022	3:51AM	AUS Leachate - pH 5.0	M22- Ap0004370	X		X	
35	SX_OB_20220 402_08_10_S S_Primary_EU F	Apr 02, 2022	8:10AM	AUS Leachate - Reagent Water	M22- Ap0004371	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
36	SX_OB_20220402_08_27_S_S_Triplicate_EUF	Apr 02, 2022	8:27AM	AUS Leachate - Reagent Water	M22-Ap0004372	X		X	
37	SX_OB_20220402_13_17_S_S_Primary_EUF	Apr 02, 2022	1:17PM	AUS Leachate - Reagent Water	M22-Ap0004373	X		X	
38	SX_OB_20220402_16_03_S_S_Primary_EUF	Apr 02, 2022	4:03PM	AUS Leachate - Reagent Water	M22-Ap0004374	X		X	
39	SX_OB_20220402_16_04_S	Apr 02, 2022	4:04PM	AUS Leachate - Reagent	M22-Ap0004375	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF			Water					
40	SX_OB_20220402_20_04_S_S_Primary_EUF	Apr 02, 2022	8:04PM	AUS Leachate - Reagent Water	M22-Ap0004376	X	X		
41	SX_OB_20220403_03_56_S_S_Primary_EUF	Apr 03, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Ap0004377	X	X		
42	SX_OB_20220403_07_56_S_S_Triplicate_EUF	Apr 03, 2022	7:56AM	AUS Leachate - Reagent Water	M22-Ap0004378	X	X		

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
43	SX_OB_20220403_07_57_S_S_Primary_EU_F	Apr 03, 2022	7:57AM	AUS Leachate - Reagent Water	M22-Ap0004379	X		X	
44	SX_OB_20220403_11_52_S_S_Primary_EU_F	Apr 03, 2022	11:52AM	AUS Leachate - Reagent Water	M22-Ap0004380	X		X	
45	SX_OB_20220403_16_01_S_S_Primary_EU_F	Apr 03, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ap0004381	X		X	
46	SX_OB_20220403_16_02_S	Apr 03, 2022	4:02PM	AUS Leachate - Reagent	M22-Ap0004382	X		X	

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Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF			Water					
47	SX_OB_20220403_20_13_S_S_Primary_EUF	Apr 03, 2022	8:13PM	AUS Leachate - Reagent Water	M22-Ap0004383	X		X	
48	SX_OB_20220404_00_07_S_S_Primary_EUF	Apr 04, 2022	12:07AM	AUS Leachate - Reagent Water	M22-Ap0004384	X		X	
49	SX_OB_20220404_03_51_S_S_Primary_EUF	Apr 04, 2022	3:51AM	AUS Leachate - Reagent Water	M22-Ap0004385	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Apr 4, 2022 2:50 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	876879	Due:	Apr 11, 2022
Project Name:	20220404042056-Eurofin-21	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IMRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	30	15	49	15

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1,2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1,3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2,4,5-Trichlorophenol	mg/kg	< 1			1	Pass	
2,4,6-Trichlorophenol	mg/kg	< 1			1	Pass	
2,6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4,6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1.0	Pass	
2,4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2,4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride (Total)	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 2			2	Pass	
Tin	mg/kg	< 10			10	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (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 FTSA)						
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						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	85		70-130	Pass	
TRH C10-C14	%	106		70-130	Pass	
Naphthalene	%	75		70-130	Pass	
TRH C6-C10	%	83		70-130	Pass	
TRH >C10-C16	%	105		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	77		70-130	Pass	
1.1.1-Trichloroethane	%	85		70-130	Pass	
1.2-Dichlorobenzene	%	75		70-130	Pass	
1.2-Dichloroethane	%	86		70-130	Pass	
Benzene	%	82		70-130	Pass	
Ethylbenzene	%	82		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	79			70-130	Pass	
Toluene	%	82			70-130	Pass	
Trichloroethene	%	96			70-130	Pass	
Xylenes - Total*	%	79			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	122			70-130	Pass	
Anthracene	%	111			70-130	Pass	
Benz(a)anthracene	%	103			70-130	Pass	
Benzo(a)pyrene	%	115			70-130	Pass	
Benzo(b&i)fluoranthene	%	107			70-130	Pass	
Benzo(g,h,i)perylene	%	89			70-130	Pass	
Benzo(k)fluoranthene	%	106			70-130	Pass	
Chrysene	%	101			70-130	Pass	
Dibenz(a,h)anthracene	%	97			70-130	Pass	
Fluoranthene	%	128			70-130	Pass	
Fluorene	%	118			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	99			70-130	Pass	
Naphthalene	%	108			70-130	Pass	
Phenanthrene	%	111			70-130	Pass	
Pyrene	%	121			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	83			70-130	Pass	
4,4'-DDD	%	120			70-130	Pass	
4,4'-DDE	%	100			70-130	Pass	
4,4'-DDT	%	123			70-130	Pass	
a-HCH	%	89			70-130	Pass	
Aldrin	%	86			70-130	Pass	
b-HCH	%	87			70-130	Pass	
d-HCH	%	97			70-130	Pass	
Dieldrin	%	80			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	97			70-130	Pass	
Endosulfan sulphate	%	87			70-130	Pass	
Endrin	%	76			70-130	Pass	
Endrin aldehyde	%	74			70-130	Pass	
Endrin ketone	%	99			70-130	Pass	
g-HCH (Lindane)	%	79			70-130	Pass	
Heptachlor	%	94			70-130	Pass	
Heptachlor epoxide	%	80			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	85			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	70			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	111			25-140	Pass	
2,4-Dichlorophenol	%	95			25-140	Pass	
2,4,5-Trichlorophenol	%	82			25-140	Pass	
2,4,6-Trichlorophenol	%	96			25-140	Pass	
2,6-Dichlorophenol	%	104			25-140	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	98		25-140	Pass	
Pentachlorophenol	%	71		25-140	Pass	
Tetrachlorophenols - Total	%	74		25-140	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	%	37		25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	56		25-140	Pass	
2-Nitrophenol	%	101		25-140	Pass	
2,4-Dimethylphenol	%	99		25-140	Pass	
2,4-Dinitrophenol	%	51		25-140	Pass	
2-Methylphenol (o-Cresol)	%	93		25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	104		25-140	Pass	
4-Nitrophenol	%	78		25-140	Pass	
Dinoseb	%	81		25-140	Pass	
Phenol	%	91		25-140	Pass	
LCS - % Recovery						
Chromium (hexavalent)	%	88		70-130	Pass	
Cyanide (total)	%	98		70-130	Pass	
Fluoride (Total)	%	106		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	103		80-120	Pass	
Cadmium	%	82		80-120	Pass	
Chromium	%	108		80-120	Pass	
Copper	%	106		80-120	Pass	
Lead	%	104		80-120	Pass	
Mercury	%	112		80-120	Pass	
Molybdenum	%	105		80-120	Pass	
Nickel	%	100		80-120	Pass	
Selenium	%	103		80-120	Pass	
Silver	%	87		80-120	Pass	
Tin	%	105		80-120	Pass	
Zinc	%	105		80-120	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	79		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	143		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	86		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	76		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	95		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	81		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	74		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	67		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	65		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	141		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	117		50-150	Pass	
LCS - % Recovery						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	%	102		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	98		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	69		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	92		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	80		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	88			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)	%	100			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	117			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	132			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	93			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	99			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	130			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	129			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	96			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	124			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	118			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-Ap0005189	NCP	%	121		70-130	Pass	
Naphthalene	M22-Ap0005189	NCP	%	96		70-130	Pass	
TRH C6-C10	M22-Ap0005189	NCP	%	120		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	M22-Ap0005189	NCP	%	96		70-130	Pass	
1.1.1-Trichloroethane	M22-Ap0005189	NCP	%	102		70-130	Pass	
1.2-Dichlorobenzene	M22-Ap0005189	NCP	%	116		70-130	Pass	
1.2-Dichloroethane	M22-Ap0005189	NCP	%	126		70-130	Pass	
Benzene	M22-Ap0005189	NCP	%	120		70-130	Pass	
Ethylbenzene	M22-Ap0005189	NCP	%	124		70-130	Pass	
m&p-Xylenes	M22-Ap0005189	NCP	%	120		70-130	Pass	
o-Xylene	M22-Ap0005189	NCP	%	121		70-130	Pass	
Toluene	M22-Ap0005189	NCP	%	122		70-130	Pass	
Trichloroethene	M22-Ap0003582	NCP	%	99		70-130	Pass	
Xylenes - Total*	M22-Ap0005189	NCP	%	121		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	M22-Ap0005190	NCP	%	88		70-130	Pass	
Acenaphthylene	M22-Ap0005190	NCP	%	81		70-130	Pass	
Benzo(b&j)fluoranthene	M22-Ap0005190	NCP	%	112		70-130	Pass	
Benzo(g,h,i)perylene	M22-Ap0005190	NCP	%	91		70-130	Pass	
Benzo(k)fluoranthene	M22-Ap0005190	NCP	%	99		70-130	Pass	
Dibenz(a,h)anthracene	M22-Ap0005190	NCP	%	85		70-130	Pass	
Fluorene	M22-Ap0005190	NCP	%	121		70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-Ap0005190	NCP	%	102		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-Ap0005702	NCP	%	89		70-130	Pass	
4.4'-DDD	M22-Ap0005702	NCP	%	81		70-130	Pass	
4.4'-DDE	M22-Ap0005702	NCP	%	98		70-130	Pass	
4.4'-DDT	M22-Ap0005702	NCP	%	123		70-130	Pass	
a-HCH	M22-Ap0005702	NCP	%	81		70-130	Pass	
Aldrin	M22-Ap0005702	NCP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
b-HCH	M22-Ap0005702	NCP	%	78		70-130	Pass	
d-HCH	M22-Ap0005702	NCP	%	88		70-130	Pass	
Dieldrin	M22-Ap0005702	NCP	%	94		70-130	Pass	
Endosulfan I	M22-Ap0005702	NCP	%	98		70-130	Pass	
Endosulfan II	M22-Ap0005702	NCP	%	79		70-130	Pass	
Endosulfan sulphate	M22-Ap0005702	NCP	%	92		70-130	Pass	
Endrin	M22-Ap0005702	NCP	%	106		70-130	Pass	
Endrin aldehyde	M22-Ap0005702	NCP	%	123		70-130	Pass	
Endrin ketone	M22-Ap0005702	NCP	%	100		70-130	Pass	
g-HCH (Lindane)	M22-Ap0005702	NCP	%	75		70-130	Pass	
Heptachlor	M22-Ap0005702	NCP	%	83		70-130	Pass	
Heptachlor epoxide	M22-Ap0005702	NCP	%	81		70-130	Pass	
Hexachlorobenzene	M22-Ap0005702	NCP	%	94		70-130	Pass	
Methoxychlor	M22-Ap0005702	NCP	%	74		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	M22-Ap0005702	NCP	%	123		70-130	Pass	
Aroclor-1260	M22-Ap0005702	NCP	%	90		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	M22-Ap0005190	NCP	%	63		30-130	Pass	
2,4-Dichlorophenol	M22-Ap0005190	NCP	%	57		30-130	Pass	
2,4,5-Trichlorophenol	M22-Ap0005190	NCP	%	59		30-130	Pass	
2,4,6-Trichlorophenol	M22-Ap0005190	NCP	%	68		30-130	Pass	
2,6-Dichlorophenol	M22-Ap0005190	NCP	%	63		30-130	Pass	
4-Chloro-3-methylphenol	M22-Ap0005190	NCP	%	59		30-130	Pass	
Pentachlorophenol	M22-Ap0005190	NCP	%	77		30-130	Pass	
Tetrachlorophenols - Total	M22-Ap0005190	NCP	%	38		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M22-Ap0005190	NCP	%	73		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M22-Ap0005190	NCP	%	61		30-130	Pass	
2-Nitrophenol	M22-Ap0005190	NCP	%	63		30-130	Pass	
2,4-Dimethylphenol	M22-Ap0005190	NCP	%	82		30-130	Pass	
2,4-Dinitrophenol	M22-Ap0005190	NCP	%	55		30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Ap0005190	NCP	%	66		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ap0005190	NCP	%	74		30-130	Pass	
4-Nitrophenol	M22-Ap0005190	NCP	%	63		30-130	Pass	
Dinoseb	M22-Ap0005190	NCP	%	72		30-130	Pass	
Phenol	M22-Ap0005190	NCP	%	66		30-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M22-Ap0004337	CP	%	97		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M22-Ap0005874	NCP	%	103		75-125	Pass	
Cadmium	M22-Ap0005874	NCP	%	85		75-125	Pass	
Chromium	M22-Ap0005874	NCP	%	112		75-125	Pass	
Copper	M22-Ap0005874	NCP	%	111		75-125	Pass	
Lead	M22-Ap0005874	NCP	%	104		75-125	Pass	
Mercury	M22-Ap0005874	NCP	%	97		75-125	Pass	
Molybdenum	M22-Ap0005874	NCP	%	108		75-125	Pass	
Nickel	M22-Ap0005874	NCP	%	106		75-125	Pass	
Selenium	M22-Ap0005874	NCP	%	103		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Silver	M22-Ap0005874	NCP	%	91		75-125	Pass	
Tin	M22-Ap0005874	NCP	%	110		75-125	Pass	
Zinc	M22-Ap0005874	NCP	%	105		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Anthracene	M22-Ap0002190	NCP	%	104		70-130	Pass	
Benz(a)anthracene	M22-Ap0002190	NCP	%	83		70-130	Pass	
Benzo(a)pyrene	M22-Ap0002190	NCP	%	78		70-130	Pass	
Chrysene	M22-Ap0002190	NCP	%	99		70-130	Pass	
Fluoranthene	M22-Ap0002190	NCP	%	81		70-130	Pass	
Naphthalene	M22-Ap0002190	NCP	%	97		70-130	Pass	
Phenanthrene	M22-Ap0002190	NCP	%	80		70-130	Pass	
Pyrene	M22-Ap0002190	NCP	%	82		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-Ap0004341	CP	%	95		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-Ap0004342	CP	%	80		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	M22-Ap0004343	CP	%	114		70-130	Pass	
TRH >C10-C16	M22-Ap0004343	CP	%	118		70-130	Pass	
Spike - % Recovery								
				Result 1				
Cyanide (total)	M22-Ap0004343	CP	%	111		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	M22-Ap0004343	CP	%	82		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ap0004343	CP	%	111		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ap0004343	CP	%	91		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ap0004343	CP	%	81		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ap0004343	CP	%	93		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ap0004343	CP	%	85		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ap0004343	CP	%	79		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0004343	CP	%	74		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ap0004343	CP	%	69		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0004343	CP	%	116		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0004343	CP	%	118		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	M22-Ap0004343	CP	%	87		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0004343	CP	%	87		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0004343	CP	%	113		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0004343	CP	%	51		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0004343	CP	%	121		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0004343	CP	%	52			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0004343	CP	%	83			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0004343	CP	%	99			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ap0004343	CP	%	133			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0004343	CP	%	124			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0004343	CP	%	109			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0004343	CP	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0004343	CP	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0004343	CP	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0004343	CP	%	120			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0004343	CP	%	139			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0004343	CP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0004343	CP	%	146			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0004343	CP	%	140			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Ap0005187	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-Ap0005882	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-Ap0005882	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-Ap0005882	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Ap0005187	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-Ap0005882	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-Ap0005882	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-Ap0005882	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1.2-Trichloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-Ap0005187	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ap0005187	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ap0005187	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ap0005187	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ap0005187	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ap0005187	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ap0005187	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-Ap0005183	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-Ap0005183	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass

Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-Ap0005183	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-Ap0005183	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	B22-Ap0002469	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-Ap0005183	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-Ap0005183	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-Ap0005183	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-Ap0005183	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-Ap0005183	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-Ap0005183	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-Ap0005183	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-Ap0005183	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-Ap0005183	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-Ap0005183	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-Ap0005183	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-Ap0005183	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Cyanide (total)	M22-Ap0002511	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Fluoride (Total)	M22-Ap0004337	CP	mg/kg	240	460	63	30%	Fail
pH (1:5 Aqueous extract at 25°C as rec.)	M22-Ap0005888	NCP	pH Units	6.0	rep	#VALUE!	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-Ap0005883	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Cadmium	M22-Ap0005883	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ap0005883	NCP	mg/kg	7.4	7.6	2.0	30%	Pass
Copper	M22-Ap0005883	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	M22-Ap0005883	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	M22-Ap0005883	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ap0005883	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-Ap0005883	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Selenium	M22-Ap0005883	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M22-Ap0005883	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ap0005883	NCP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ap0005883	NCP	mg/kg	5.1	< 5	21	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ap0002540	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ap0002540	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ap0002540	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ap0002540	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Fluoride (Total)	M22-Ap0004338	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ap0004339	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ap0004340	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-Ap0004342	CP	%	28	29	4.0	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
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:

Michael Cassidy	Analytical Services Manager
Linda Chourman	Senior Analyst (NSW)
Edward Lee	Senior Analyst (VIC)
Joseph Edouard	Senior Analyst (VIC)
Scott Beddoes	Senior Analyst (NSW)
Mary Makarios	Senior Analyst (NSW)
Carroll Lee	Senior Analyst (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Agon Environmental Pty Ltd - VIC
3/224 Glen Osmond Road
Fullarton
SA 5063



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: **David Lawson**

Report **876879-W**
Project name **20220404042056-Eurofin-21**
Project ID **JC0927**
Received Date **Apr 04, 2022**

Client Sample ID			SX_OB_20220 403_04_08_SR _Rinsate_EUF	SX_OB_20220 403_04_09_SB _Blank_EUF	SX_OB_20220 403_15_28_SB _Blank_EUF	SX_OB_20220 403_15_30_SR _Rinsate_EUF
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M22- Ap0004344	M22- Ap0004345	M22- Ap0004349	M22- Ap0004350
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	76	78	60	74
13C5-PFPeA (surr.)	1	%	81	85	68	85
13C5-PFHxA (surr.)	1	%	85	87	69	85
13C4-PFHpA (surr.)	1	%	77	80	65	83
13C8-PFOA (surr.)	1	%	71	75	61	77
13C5-PFNA (surr.)	1	%	66	70	59	74
13C6-PFDA (surr.)	1	%	72	75	75	81
13C2-PFUnDA (surr.)	1	%	49	55	55	58
13C2-PFDoDA (surr.)	1	%	39	42	55	47
13C2-PFTeDA (surr.)	1	%	12	23	33	13
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	%	77	81	70	88

Client Sample ID			SX_OB_20220 403_04_08_SR _Rinsate_EUF	SX_OB_20220 403_04_09_SB _Blank_EUF	SX_OB_20220 403_15_28_SB _Blank_EUF	SX_OB_20220 403_15_30_SR _Rinsate_EUF
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M22- Ap0004344	M22- Ap0004345	M22- Ap0004349	M22- Ap0004350
Date Sampled			Apr 03, 2022	Apr 03, 2022	Apr 03, 2022	Apr 03, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	73	87	76	93
D5-N-EtFOSA (surr.)	1	%	91	109	104	115
D7-N-MeFOSE (surr.)	1	%	50	51	45	54
D9-N-EtFOSE (surr.)	1	%	56	60	59	67
D5-N-EtFOSAA (surr.)	1	%	24	26	31	32
D3-N-MeFOSAA (surr.)	1	%	24	30	36	39
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	90	89	74	91
18O2-PFHxS (surr.)	1	%	84	86	74	86
13C8-PFOS (surr.)	1	%	74	76	70	84
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	37	37	30	37
13C2-6:2 FTSA (surr.)	1	%	52	54	44	55
13C2-8:2 FTSA (surr.)	1	%	59	67	57	68
13C2-10:2 FTSA (surr.)	1	%	52	46	53	47
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

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	Apr 04, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Apr 04, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Apr 04, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Apr 04, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Apr 04, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name:	20220404042056-Eurofin-21	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220402_08_10_S_S_Primary_EU F	Apr 02, 2022	8:10AM	Soil	M22-Ap0004337		X	X	X
2	SX_OB_20220402_08_27_S_S_Triplicate_EUF	Apr 02, 2022	8:27AM	Soil	M22-Ap0004338		X	X	X
3	SX_OB_20220402_13_17_S_S_Primary_EU F	Apr 02, 2022	1:17PM	Soil	M22-Ap0004339		X	X	X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
4	SX_OB_20220402_16_03_S_S_Primary_EU_F	Apr 02, 2022	4:03PM	Soil	M22-Ap0004340		X	X	X
5	SX_OB_20220402_16_04_S_S_Duplicate_EUF	Apr 02, 2022	4:04PM	Soil	M22-Ap0004341		X	X	X
6	SX_OB_20220402_20_04_S_S_Primary_EU_F	Apr 02, 2022	8:04PM	Soil	M22-Ap0004342		X	X	X
7	SX_OB_20220403_03_56_S	Apr 03, 2022	3:56AM	Soil	M22-Ap0004343		X	X	X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
8	SX_OB_20220 403_04_08_S R_Rinsate_EU F	Apr 03, 2022	4:08AM	Water	M22- Ap0004344			X	
9	SX_OB_20220 403_04_09_S B_Blank_EUF	Apr 03, 2022	4:09AM	Water	M22- Ap0004345			X	
10	SX_OB_20220 403_07_56_S S_Triplicate_E UF	Apr 03, 2022	7:56AM	Soil	M22- Ap0004346		X	X	X
11	SX_OB_20220	Apr 03, 2022	7:57AM	Soil	M22-		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	403_07_57_S S_Primary_EU F				Ap0004347				
12	SX_OB_20220 403_11_52_S S_Primary_EU F	Apr 03, 2022	11:52AM	Soil	M22- Ap0004348		X	X	X
13	SX_OB_20220 403_15_28_S B_Blank_EUF	Apr 03, 2022	3:28PM	Water	M22- Ap0004349			X	
14	SX_OB_20220 403_15_30_S R_Rinsate_EU F	Apr 03, 2022	3:30PM	Water	M22- Ap0004350			X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
15	SX_OB_20220403_16_01_SS_Primary_EU_F	Apr 03, 2022	4:01PM	Soil	M22-Ap0004351		X	X	X
16	SX_OB_20220403_16_02_SS_Duplicate_EU_F	Apr 03, 2022	4:02PM	Soil	M22-Ap0004352		X	X	X
17	SX_OB_20220403_20_13_SS_Primary_EU_F	Apr 03, 2022	8:13PM	Soil	M22-Ap0004353		X	X	X
18	SX_OB_20220404_00_07_S	Apr 04, 2022	12:07AM	Soil	M22-Ap0004354		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
19	SX_OB_20220 404_03_51_S S_Primary_EU F	Apr 04, 2022	3:51AM	Soil	M22- Ap0004355		X	X	X
20	SX_OB_20220 402_08_10_S S_Primary_EU F	Apr 02, 2022	8:10AM	AUS Leachate - pH 5.0	M22- Ap0004356	X		X	
21	SX_OB_20220 402_08_27_S S_Triplicate_E UF	Apr 02, 2022	8:27AM	AUS Leachate - pH 5.0	M22- Ap0004357	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
22	SX_OB_20220402_13_17_S_S_Primary_EU_F	Apr 02, 2022	1:17PM	AUS Leachate - pH 5.0	M22-Ap0004358	X		X	
23	SX_OB_20220402_16_03_S_S_Primary_EU_F	Apr 02, 2022	4:03PM	AUS Leachate - pH 5.0	M22-Ap0004359	X		X	
24	SX_OB_20220402_16_04_S_S_Duplicate_EUF	Apr 02, 2022	4:04PM	AUS Leachate - pH 5.0	M22-Ap0004360	X		X	
25	SX_OB_20220402_20_04_S	Apr 02, 2022	8:04PM	AUS Leachate - pH 5.0	M22-Ap0004361	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
26	SX_OB_20220 403_03_56_S S_Primary_EU F	Apr 03, 2022	3:56AM	AUS Leachate - pH 5.0	M22- Ap0004362	X		X	
27	SX_OB_20220 403_07_56_S S_Triplicate_E UF	Apr 03, 2022	7:56AM	AUS Leachate - pH 5.0	M22- Ap0004363	X		X	
28	SX_OB_20220 403_07_57_S S_Primary_EU F	Apr 03, 2022	7:57AM	AUS Leachate - pH 5.0	M22- Ap0004364	X		X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
29	SX_OB_20220403_11_52_S_S_Primary_EU_F	Apr 03, 2022	11:52AM	AUS Leachate - pH 5.0	M22-Ap0004365	X		X	
30	SX_OB_20220403_16_01_S_S_Primary_EU_F	Apr 03, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ap0004366	X		X	
31	SX_OB_20220403_16_02_S_S_Duplicate_EUF	Apr 03, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ap0004367	X		X	
32	SX_OB_20220403_20_13_S	Apr 03, 2022	8:13PM	AUS Leachate - pH 5.0	M22-Ap0004368	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
33	SX_OB_20220 404_00_07_S S_Primary_EU F	Apr 04, 2022	12:07AM	AUS Leachate - pH 5.0	M22- Ap0004369	X		X	
34	SX_OB_20220 404_03_51_S S_Primary_EU F	Apr 04, 2022	3:51AM	AUS Leachate - pH 5.0	M22- Ap0004370	X		X	
35	SX_OB_20220 402_08_10_S S_Primary_EU F	Apr 02, 2022	8:10AM	AUS Leachate - Reagent Water	M22- Ap0004371	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
36	SX_OB_20220402_08_27_S_S_Triplicate_EUF	Apr 02, 2022	8:27AM	AUS Leachate - Reagent Water	M22-Ap0004372	X		X	
37	SX_OB_20220402_13_17_S_S_Primary_EUF	Apr 02, 2022	1:17PM	AUS Leachate - Reagent Water	M22-Ap0004373	X		X	
38	SX_OB_20220402_16_03_S_S_Primary_EUF	Apr 02, 2022	4:03PM	AUS Leachate - Reagent Water	M22-Ap0004374	X		X	
39	SX_OB_20220402_16_04_S	Apr 02, 2022	4:04PM	AUS Leachate - Reagent	M22-Ap0004375	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF			Water					
40	SX_OB_20220402_20_04_S_S_Primary_EUF	Apr 02, 2022	8:04PM	AUS Leachate - Reagent Water	M22-Ap0004376	X	X		
41	SX_OB_20220403_03_56_S_S_Primary_EUF	Apr 03, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Ap0004377	X	X		
42	SX_OB_20220403_07_56_S_S_Triplicate_EUF	Apr 03, 2022	7:56AM	AUS Leachate - Reagent Water	M22-Ap0004378	X	X		

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
43	SX_OB_20220403_07_57_S_S_Primary_EU_F	Apr 03, 2022	7:57AM	AUS Leachate - Reagent Water	M22-Ap0004379	X		X	
44	SX_OB_20220403_11_52_S_S_Primary_EU_F	Apr 03, 2022	11:52AM	AUS Leachate - Reagent Water	M22-Ap0004380	X		X	
45	SX_OB_20220403_16_01_S_S_Primary_EU_F	Apr 03, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ap0004381	X		X	
46	SX_OB_20220403_16_02_S	Apr 03, 2022	4:02PM	AUS Leachate - Reagent	M22-Ap0004382	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF			Water					
47	SX_OB_20220403_20_13_S_S_Primary_EUF	Apr 03, 2022	8:13PM	AUS Leachate - Reagent Water	M22-Ap0004383	X		X	
48	SX_OB_20220404_00_07_S_S_Primary_EUF	Apr 04, 2022	12:07AM	AUS Leachate - Reagent Water	M22-Ap0004384	X		X	
49	SX_OB_20220404_03_51_S_S_Primary_EUF	Apr 04, 2022	3:51AM	AUS Leachate - Reagent Water	M22-Ap0004385	X		X	

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063
Project Name: 20220404042056-Eurofin-21
Project ID: JC0927

Order No.:
Report #: 876879
Phone: 08 8338 1009
Fax:

Received: Apr 4, 2022 2:50 PM
Due: Apr 11, 2022
Priority: 5 Day
Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IMRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217				
Brisbane Laboratory - NATA # 1261 Site # 20794				
Mayfield Laboratory - NATA # 1261 Site # 25079				
Perth Laboratory - NATA # 2377 Site # 2370				
External Laboratory				
Test Counts	30	15	49	15

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
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)	%	94		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	92		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	98		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	93		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	93		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	87		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	96		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	101		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	112		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	100		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	108		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	104			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	107			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	118			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	91			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	109			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	97			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	86			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA)								
Perfluorobutanesulfonic acid (PFBS)	%	101			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	108			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	106			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	103			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	107			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	96			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	97			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	119			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	121			50-150	Pass		
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	110			50-150	Pass		
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	97			50-150	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	M22-Ma67305	NCP	%	112		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma67305	NCP	%	93		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma67305	NCP	%	103		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma67305	NCP	%	95		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma67305	NCP	%	101		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma67305	NCP	%	95		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma67305	NCP	%	104		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma67305	NCP	%	107		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma67305	NCP	%	119		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma67305	NCP	%	183		50-150	Fail	Q08
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma67305	NCP	%	100		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	M22-Ma67305	NCP	%	113		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma67305	NCP	%	106		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma67305	NCP	%	115		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma67305	NCP	%	104		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma67305	NCP	%	113		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma67305	NCP	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma67305	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ma67305	NCP	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma67305	NCP	%	103			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma67305	NCP	%	102			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma67305	NCP	%	105			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma67305	NCP	%	104			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma67305	NCP	%	109			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma67305	NCP	%	104			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma67305	NCP	%	77			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma67305	NCP	%	119			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma67305	NCP	%	138			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma67305	NCP	%	115			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma67305	NCP	%	100			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ma66031	NCP	ug/L	1.4	1.2	13	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma66031	NCP	ug/L	0.30	0.27	11	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma66031	NCP	ug/L	0.97	0.81	19	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma66031	NCP	ug/L	0.14	0.12	17	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma66031	NCP	ug/L	0.21	0.19	13	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTEDA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma66031	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma66031	NCP	ug/L	0.20	0.16	24	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma66031	NCP	ug/L	0.13	0.06	67	30%	Fail Q15
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma66031	NCP	ug/L	0.05	0.04	5.0	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma66031	NCP	ug/L	0.25	0.20	22	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma66031	NCP	ug/L	0.13	0.10	20	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma66031	NCP	ug/L	3.1	3.0	2.0	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma66031	NCP	ug/L	0.02	0.02	17	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma66031	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Michael Cassidy	Analytical Services Manager
Joseph Edouard	Senior Analyst (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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CHAIN OF CUSTODY DOCUMENTATION

CLIENT: Agon Environmental
 ADDRESS / OFFICE: Melbourne
 PROJECT MANAGER (PM): Craig Timbur
 PROJECT ID: JC0927
 SITE: 20220404_1402-ALS-21
 RESULTS REQUIRED (Date): 5 days

SAMPLER: ES, LR, HK - EP Risk
 MOBILE 1: +61 400 826 907 (Craig Timbur)
 MOBILE 2: +61 490 411 004 (David Lawson)
 EMAIL REPORT TO: Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au
 motherhub@esresults1@v910.com.au

P.O. NO.:
 QUOTE NO.: ME-160-19 WCST
 ANALYSIS REQUIRED (if different to report): Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au

SAMPLE INFORMATION (note: S = Soil, W=Water)				CONTAINER INFORMATION			
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles	Comments / SPECIAL HANDLING / STORAGE OR DISPOSAL
1	SX_OB_20220402_08_24_SS_Primary_ALS	S	2/04/2022	08:24	Bucket	1	
2	SX_OB_20220402_08_26_SS_Duplicate_ALS	S	2/04/2022	08:26	Bucket	1	
3	SX_OB_20220402_09_33_SR_Presate_ALS	W	2/04/2022	09:33	Bottle	1	
4	SX_OB_20220402_09_34_SB_Blank_ALS	W	2/04/2022	09:34	Bottle	1	
5	SX_OB_20220402_13_12_SS_Primary_ALS	S	2/04/2022	13:12	Bucket	1	
6	SX_OB_20220402_16_06_SS_Triplicate_ALS	S	2/04/2022	16:06	Bucket	1	
7	SX_OB_20220402_16_11_SS_Primary_ALS	S	2/04/2022	16:11	Bucket	1	
8	SX_OB_20220402_20_00_SS_Primary_ALS	S	2/04/2022	20:00	Bucket	1	
9	SX_OB_20220403_07_55_SS_Primary_ALS	S	3/04/2022	00:02	Bucket	1	
10	SX_OB_20220403_07_55_SS_Primary_ALS	S	3/04/2022	7:55	Bucket	1	
11	SX_OB_20220403_07_56_SS_Duplicate_ALS	S	3/04/2022	7:56	Bucket	1	
12	SX_OB_20220403_11_53_SS_Primary_ALS	S	3/04/2022	11:53	Bucket	1	
13	SX_OB_20220403_12_27_SB_Blank_ALS	W	3/04/2022	12:27	Bottle	1	
14	SX_OB_20220403_12_28_SR_Presate_ALS	W	3/04/2022	12:28	Bottle	1	
15	SX_OB_20220403_16_04_SS_Triplicate_ALS	S	3/04/2022	16:04	Bucket	1	
16	SX_OB_20220403_16_05_SS_Primary_ALS	S	3/04/2022	16:05	Bucket	1	
17	SX_OB_20220403_20_07_SS_Primary_ALS	S	3/04/2022	20:07	Bucket	1	
18	SX_OB_20220404_00_02_SS_Primary_ALS	S	4/04/2022	0:02	Bucket	1	
19	SX_OB_20220404_03_59_SS_Primary_ALS	S	4/04/2022	3:59	Bucket	1	

ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles	Notes
1	SX_OB_20220402_08_24_SS_Primary_ALS	S	2/04/2022	08:24	Bucket	1	
2	SX_OB_20220402_08_26_SS_Duplicate_ALS	S	2/04/2022	08:26	Bucket	1	
3	SX_OB_20220402_09_33_SR_Presate_ALS	W	2/04/2022	09:33	Bottle	1	
4	SX_OB_20220402_09_34_SB_Blank_ALS	W	2/04/2022	09:34	Bottle	1	
5	SX_OB_20220402_13_12_SS_Primary_ALS	S	2/04/2022	13:12	Bucket	1	
6	SX_OB_20220402_16_06_SS_Triplicate_ALS	S	2/04/2022	16:06	Bucket	1	
7	SX_OB_20220402_16_11_SS_Primary_ALS	S	2/04/2022	16:11	Bucket	1	
8	SX_OB_20220402_20_00_SS_Primary_ALS	S	2/04/2022	20:00	Bucket	1	
9	SX_OB_20220403_07_55_SS_Primary_ALS	S	3/04/2022	00:02	Bucket	1	
10	SX_OB_20220403_07_55_SS_Primary_ALS	S	3/04/2022	7:55	Bucket	1	
11	SX_OB_20220403_07_56_SS_Duplicate_ALS	S	3/04/2022	7:56	Bucket	1	
12	SX_OB_20220403_11_53_SS_Primary_ALS	S	3/04/2022	11:53	Bucket	1	
13	SX_OB_20220403_12_27_SB_Blank_ALS	W	3/04/2022	12:27	Bottle	1	
14	SX_OB_20220403_12_28_SR_Presate_ALS	W	3/04/2022	12:28	Bottle	1	
15	SX_OB_20220403_16_04_SS_Triplicate_ALS	S	3/04/2022	16:04	Bucket	1	
16	SX_OB_20220403_16_05_SS_Primary_ALS	S	3/04/2022	16:05	Bucket	1	
17	SX_OB_20220403_20_07_SS_Primary_ALS	S	3/04/2022	20:07	Bucket	1	
18	SX_OB_20220404_00_02_SS_Primary_ALS	S	4/04/2022	0:02	Bucket	1	
19	SX_OB_20220404_03_59_SS_Primary_ALS	S	4/04/2022	3:59	Bucket	1	

RELINQUISHED BY: [Signature]
 RECEIVED BY: [Signature]
 Name: [Name] Date: [Date]
 Name: [Name] Date: [Date]
 Name: [Name] Date: [Date]
 Name: [Name] Date: [Date]

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SR = Sodium Hydroxide Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; V = VOA Via HCl Preserved; VS = VOA Via Sulphuric Preserved; SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Specification bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Solids; B = Unpreserved Bag



Environmental Division
 Melbourne
 Work Order Reference
EM2206081

Telephone : + 61-3-8549 9600



Australian Laboratory Services Pty Ltd

CHAIN OF CUSTODY DOCUMENTATION



Australian Laboratory Services Pty Ltd

CLIENT: Agon Environmental
 ADDRESS / OFFICE: Melbourne
 PROJECT MANAGER (PM): Craig Trimbur
 PROJECT ID: JC0927

SAMPLER: ES, LR, HK - EP Risk
 MOBILE 1: +61 400 826 907 (Craig Trimbur)
 MOBILE 2: +61 490 411 004 (David Lawson)

EMAIL REPORT TO: Labreports.TST@agonenviro.com.au
 agonenvironmental@esdal.com.au
 motherhublabreports1@waglp.com.au

SITE: 202204041402-ALS-21
 RESULTS REQUIRED (Date): 5 days
 P.O. NO.:
 QUOTE NO.: ME-190-19 WGRP

EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au
 ANALYSIS REQUIRED (including SUTES) (note - suite codes must be listed to attract suite prices)

ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles
1	SX_OB_20220402_08_24_SS_Primary_ALS	S	21/04/2022	08:24	Bucket	1
2	SX_OB_20220402_08_26_SS_Duplicate_ALS	S	21/04/2022	08:26	Bucket	1
3	SX_OB_20220402_09_33_SR_RinseAL	W	21/04/2022	09:33	Bottle	1
4	SX_OB_20220402_09_34_SS_Blank_ALS	W	21/04/2022	09:34	Bottle	1
5	SX_OB_20220402_13_12_SS_Primary_ALS	S	21/04/2022	13:12	Bucket	1
6	SX_OB_20220402_16_06_SS_Triplicate_ALS	S	21/04/2022	16:06	Bucket	1
7	SX_OB_20220402_16_11_SS_Primary_ALS	S	21/04/2022	16:11	Bucket	1
8	SX_OB_20220402_20_00_SS_Primary_ALS	S	21/04/2022	20:00	Bucket	1
9	SX_OB_20220403_00_02_SS_Primary_ALS	S	31/04/2022	00:02	Bucket	1
10	SX_OB_20220403_07_55_SS_Primary_ALS	S	31/04/2022	7:55	Bucket	1
11	SX_OB_20220403_07_56_SS_Duplicate_ALS	S	31/04/2022	7:56	Bucket	1
12	SX_OB_20220403_11_53_SS_Primary_ALS	S	31/04/2022	11:53	Bucket	1
13	SX_OB_20220403_12_27_SS_Blank_ALS	W	31/04/2022	12:27	Bottle	1
14	SX_OB_20220403_12_28_SR_RinseAL	W	31/04/2022	12:28	Bottle	1
15	SX_OB_20220403_16_04_SS_Triplicate_ALS	S	31/04/2022	16:04	Bucket	1
16	SX_OB_20220403_16_05_SS_Primary_ALS	S	31/04/2022	16:05	Bucket	1
17	SX_OB_20220403_20_07_SS_Primary_ALS	S	31/04/2022	20:07	Bucket	1
18	SX_OB_20220404_00_02_SS_Primary_ALS	S	4/04/2022	0:02	Bucket	1
19	SX_OB_20220404_03_59_SS_Primary_ALS	S	4/04/2022	3:59	Bucket	1

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

CONTAINER INFORMATION

Spoil Sample Prep

P16 plus Cr

PFAS 28 Extended suite

ASLP PFAS - Extended Suite (Lab to determine pH)

DI Leachate PFAS - Extended Suite

Notes:

ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles	Spoil Sample Prep	P16 plus Cr	PFAS 28 Extended suite	ASLP PFAS - Extended Suite (Lab to determine pH)	DI Leachate PFAS - Extended Suite	Notes:
1	SX_OB_20220402_08_24_SS_Primary_ALS	S	21/04/2022	08:24	Bucket	1	X	X	X	X	X	
2	SX_OB_20220402_08_26_SS_Duplicate_ALS	S	21/04/2022	08:26	Bucket	1	X	X	X	X	X	
3	SX_OB_20220402_09_33_SR_RinseAL	W	21/04/2022	09:33	Bottle	1			X			
4	SX_OB_20220402_09_34_SS_Blank_ALS	W	21/04/2022	09:34	Bottle	1			X			
5	SX_OB_20220402_13_12_SS_Primary_ALS	S	21/04/2022	13:12	Bucket	1	X	X	X	X	X	
6	SX_OB_20220402_16_06_SS_Triplicate_ALS	S	21/04/2022	16:06	Bucket	1	X	X	X	X	X	
7	SX_OB_20220402_16_11_SS_Primary_ALS	S	21/04/2022	16:11	Bucket	1	X	X	X	X	X	
8	SX_OB_20220402_20_00_SS_Primary_ALS	S	21/04/2022	20:00	Bucket	1	X	X	X	X	X	
9	SX_OB_20220403_00_02_SS_Primary_ALS	S	31/04/2022	00:02	Bucket	1	X	X	X	X	X	
10	SX_OB_20220403_07_55_SS_Primary_ALS	S	31/04/2022	7:55	Bucket	1	X	X	X	X	X	
11	SX_OB_20220403_07_56_SS_Duplicate_ALS	S	31/04/2022	7:56	Bucket	1	X	X	X	X	X	
12	SX_OB_20220403_11_53_SS_Primary_ALS	S	31/04/2022	11:53	Bucket	1	X	X	X	X	X	
13	SX_OB_20220403_12_27_SS_Blank_ALS	W	31/04/2022	12:27	Bottle	1			X			
14	SX_OB_20220403_12_28_SR_RinseAL	W	31/04/2022	12:28	Bottle	1			X			
15	SX_OB_20220403_16_04_SS_Triplicate_ALS	S	31/04/2022	16:04	Bucket	1	X	X	X	X	X	
16	SX_OB_20220403_16_05_SS_Primary_ALS	S	31/04/2022	16:05	Bucket	1	X	X	X	X	X	
17	SX_OB_20220403_20_07_SS_Primary_ALS	S	31/04/2022	20:07	Bucket	1	X	X	X	X	X	
18	SX_OB_20220404_00_02_SS_Primary_ALS	S	4/04/2022	0:02	Bucket	1	X	X	X	X	X	
19	SX_OB_20220404_03_59_SS_Primary_ALS	S	4/04/2022	3:59	Bucket	1	X	X	X	X	X	

REINQUISHED BY:

RECEIVED BY:

Name: _____ Date: _____ Name: *Maria* Date: *13-5-20*
 Of: _____ Time: _____ Of: _____ Time: _____
 Name: _____ Date: _____ Name: _____ Date: _____
 Of: _____ Time: _____ Of: _____ Time: _____

METHOD OF SHIPMENT

Con Note No:

Transport Co:

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved;
 V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulphuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulphuric Preserved Plastic; F = Formaldehyde Preserved Glass;
 Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphuric Soils; B = Unpreserved Bag.

Telephone : - 61-3-9649 9600



Environmental Division
 Melbourne
 Work Order Reference
EM2206081

CERTIFICATE OF ANALYSIS

Work Order	: EM2206081	Page	: 1 of 41
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Contact	: Bronwyn Sheen
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9600
Project	: JC0927	Date Samples Received	: 04-Apr-2022 13:50
Order number	: ----	Date Analysis Commenced	: 05-Apr-2022
C-O-C number	: 20220404041402-ALS-21	Issue Date	: 11-Apr-2022 19:30
Sampler	: ES, HK - EP risk, LR		
Site	: 20220404041402-ALS-21		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 34		
No. of samples analysed	: 34		



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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	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 Contact for details.

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

- EG048G: EM2205490 #2 poor matrix spike recovery for hexavalent chromium due to matrix effects. Confirmed by re-analysis.
- EG048G: Hexavalent chromium for EM2206081 #9, 11, 16, 17 & 19 have been confirmed by re-preparation and re-analysis.
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- 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.
- EP074-UT: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP074-WF: Where reported, Sum of trichlorobenzenes is the sum of the reported concentrations of 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene, and 1,3,5-Trichlorobenzene at or above the LOR.
- EG005-T : EM2206081 #11 Poor duplicate precision for total metals due to sample matrix. Confirmed by re-digestion and re-analysis.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EN60-DI: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				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: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				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	%	96.9	99.4	98.4	96.2	91.7
13C8-PFOA	----	0.02	%	105	102	105	106	103



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				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: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				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	%	101	104	95.3	93.0	96.6
13C8-PFOA	----	0.02	%	104	103	105	101	102



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				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 (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				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	%	97.6	93.9	105	102	99.0
13C8-PFOA	----	0.02	%	103	100	101	105	99.5



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS DI	SX_OB_20220402_08_26_SS_Duplicate_ALS DI	SX_OB_20220402_13_12_SS_Primary_ALS DI	SX_OB_20220402_16_06_SS_Triplicate_ALS DI	SX_OB_20220402_16_11_SS_Primary_ALS DI
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-020	EM2206081-021	EM2206081-022	EM2206081-023	EM2206081-024
				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 (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS DI	SX_OB_20220402_08_26_SS_Duplicate_ALS DI	SX_OB_20220402_13_12_SS_Primary_ALS DI	SX_OB_20220402_16_06_SS_Triplicate_ALS DI	SX_OB_20220402_16_11_SS_Primary_ALS DI
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-020	EM2206081-021	EM2206081-022	EM2206081-023	EM2206081-024
				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	%	97.7	97.6	96.2	103	104
13C8-PFOA	----	0.02	%	100	103	102	95.8	97.7



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS DI	SX_OB_20220403_00_02_SS_Primary_ALS DI	SX_OB_20220403_07_55_SS_Primary_ALS DI	SX_OB_20220403_07_56_SS_Duplicate_ALS DI	SX_OB_20220403_11_53_SS_Primary_ALS DI
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-025	EM2206081-026	EM2206081-027	EM2206081-028	EM2206081-029
				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 (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS_DI	SX_OB_20220403_00_02_SS_Primary_ALS_DI	SX_OB_20220403_07_55_SS_Primary_ALS_DI	SX_OB_20220403_07_56_SS_Duplicate_ALS_DI	SX_OB_20220403_11_53_SS_Primary_ALS_DI
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-025	EM2206081-026	EM2206081-027	EM2206081-028	EM2206081-029
				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	%	93.2	101	107	94.4	96.6
13C8-PFOA	----	0.02	%	102	97.1	103	100	104



Analytical Results

Sub-Matrix: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS DI	SX_OB_20220403_16_05_SS_Primary_ALS DI	SX_OB_20220403_20_07_SS_Primary_ALS DI	SX_OB_20220404_00_02_SS_Primary_ALS DI	SX_OB_20220404_03_59_SS_Primary_ALS DI
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-030	EM2206081-031	EM2206081-032	EM2206081-033	EM2206081-034
				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: DI WATER LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS DI	SX_OB_20220403_16_05_SS_Primary_ALS DI	SX_OB_20220403_20_07_SS_Primary_ALS DI	SX_OB_20220404_00_02_SS_Primary_ALS DI	SX_OB_20220404_03_59_SS_Primary_ALS DI
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-030	EM2206081-031	EM2206081-032	EM2206081-033	EM2206081-034
				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	%	99.0	93.4	92.0	90.7	96.2
13C8-PFOA	----	0.02	%	105	100.0	102	95.4	103



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.7	7.7	7.8	7.7	7.7
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	29.2	30.3	27.8	19.3	24.3
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	23	25	24	19	28
Cadmium	7440-43-9	1	mg/kg	1	1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	106	110	106	90	94
Copper	7440-50-8	5	mg/kg	55	63	56	52	52
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	159	190	172	146	159
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	93	101	94	78	84
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	170	120	120	260	160
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	8.9	9.2	9.2	9.2	9.2
After HCl pH	----	0.1	pH Unit	1.0	1.8	1.4	1.1	1.1
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.1	5.1	5.0	5.0	5.0
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08_24_SS_Primary_ALS	SX_OB_20220402_08_26_SS_Duplicate_ALS	SX_OB_20220402_13_12_SS_Primary_ALS	SX_OB_20220402_16_06_SS_Triplicate_ALS	SX_OB_20220402_16_11_SS_Primary_ALS
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-001	EM2206081-002	EM2206081-005	EM2206081-006	EM2206081-007
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	115	111	118	109	116
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	76.6	84.0	73.2	74.3	59.9
Toluene-D8	2037-26-5	0.1	%	84.2	73.6	75.2	73.7	75.1
4-Bromofluorobenzene	460-00-4	0.1	%	82.0	73.6	76.3	72.0	77.3
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	97.2	88.7	96.9	87.5	101
2-Chlorophenol-D4	93951-73-6	0.025	%	89.1	82.7	90.9	81.3	93.9
2,4,6-Tribromophenol	118-79-6	0.025	%	94.8	85.3	93.4	83.7	97.0
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	90.2	84.0	92.1	79.7	96.2
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	86.7	80.1	86.4	77.4	89.2
2-Fluorobiphenyl	321-60-8	0.025	%	101	92.2	100	90.9	104
Anthracene-d10	1719-06-8	0.025	%	92.4	84.4	92.7	84.0	96.5
4-Terphenyl-d14	1718-51-0	0.025	%	95.0	87.5	97.6	88.4	101
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	114	119	103	122	132
13C8-PFOA	----	0.0002	%	112	105	106	106	114



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl ₂)	----	0.1	pH Unit	7.6	7.7	7.7	7.6	7.6
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	29.6	25.8	27.3	26.8	28.6
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	26	19	24	27	14
Cadmium	7440-43-9	1	mg/kg	1	1	1	<1	1
Chromium	7440-47-3	5	mg/kg	104	107	86	95	103
Copper	7440-50-8	5	mg/kg	61	56	54	55	57
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	196	180	163	170	168
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	93	86	93	85	82
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	1.2	<1.0	1.1	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	210	460	200	170	190
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.3	9.1	9.3	9.2	9.0
After HCl pH	----	0.1	pH Unit	1.1	1.2	1.1	1.2	1.1
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20_00_SS_Primary_ALS	SX_OB_20220403_00_02_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS	SX_OB_20220403_07_56_SS_Duplicate_ALS	SX_OB_20220403_11_53_SS_Primary_ALS
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-008	EM2206081-009	EM2206081-010	EM2206081-011	EM2206081-012
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	116	114	115	114	112
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	71.4	73.8	71.6	76.6	75.2
Toluene-D8	2037-26-5	0.1	%	102	110	67.8	93.9	70.6
4-Bromofluorobenzene	460-00-4	0.1	%	78.1	98.4	72.7	111	59.3
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	102	99.0	99.3	96.3	96.4
2-Chlorophenol-D4	93951-73-6	0.025	%	95.0	92.4	92.4	89.5	90.0
2,4,6-Tribromophenol	118-79-6	0.025	%	98.1	94.8	94.4	90.9	92.7
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	94.0	91.5	92.9	91.1	90.2
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	89.8	87.4	86.9	85.3	84.3
2-Fluorobiphenyl	321-60-8	0.025	%	105	103	103	99.7	100
Anthracene-d10	1719-06-8	0.025	%	97.5	94.9	95.0	91.3	92.1
4-Terphenyl-d14	1718-51-0	0.025	%	102	100	99.9	97.1	95.4
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	134	109	101	127	106
13C8-PFOA	----	0.0002	%	114	108	105	110	109



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.6	7.7	7.7	7.7	7.6
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	31.0	24.6	30.1	26.7	30.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	16	14	22	13	25
Cadmium	7440-43-9	1	mg/kg	2	1	1	<1	1
Chromium	7440-47-3	5	mg/kg	110	97	108	100	107
Copper	7440-50-8	5	mg/kg	65	58	62	54	57
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	193	189	187	165	169
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	92	86	92	85	100
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	1.3	1.4	<1.0	1.3
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	150	160	200	<100	170
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.2	9.1	9.0	8.8	9.0
After HCl pH	----	0.1	pH Unit	1.2	1.2	1.1	1.2	1.6
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.0	5.1	5.0	5.0
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1
EP074I: Volatile Halogenated Compounds								
Vinyl chloride	75-01-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Methylene chloride	75-09-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	156-59-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	67-66-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	71-55-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloroethane	107-06-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	79-01-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	127-18-4	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	630-20-6	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	108-90-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	106-46-7	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
1,2,4-Trichlorobenzene	120-82-1	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
^ Sum of other chlorinated hydrocarbons	----	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
EP075A: Phenolic Compounds (Halogenated)								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2-Chlorophenol	95-57-8	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,4-Dichlorophenol	120-83-2	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,4,6-Trichlorophenol	88-06-2	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	<1.00
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	<1
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	<1
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	<1
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	<1
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	<5
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	<5
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	<5
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	<20
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	<20
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	<20
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	0.6	0.6	0.6	0.6	0.6
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	1.2	1.2	1.2	1.2	1.2
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan 1	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan 2	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0



Analytical Results

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 (Matrix: SOIL)

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Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16_04_SS_Triplicate_ALS	SX_OB_20220403_16_05_SS_Primary_ALS	SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220404_00_02_SS_Primary_ALS	SX_OB_20220404_03_59_SS_Primary_ALS
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-015	EM2206081-016	EM2206081-017	EM2206081-018	EM2206081-019
				Result	Result	Result	Result	Result
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231P: PFAS Sums								
Sum of PFAS	----	50.0	µg/kg	<50.0	<50.0	<50.0	<50.0	<50.0
Sum of PFHxS and PFOS	355-46-4/1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Sum of PFAS (WA DER List)	----	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	108	87.4	118	116	107
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	73.6	73.0	71.5	76.6	67.6
Toluene-D8	2037-26-5	0.1	%	78.2	76.2	94.0	74.8	53.7
4-Bromofluorobenzene	460-00-4	0.1	%	77.1	78.1	75.4	76.2	69.1
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	92.9	79.3	102	94.4	88.4
2-Chlorophenol-D4	93951-73-6	0.025	%	86.2	73.6	94.3	87.8	82.0
2,4,6-Tribromophenol	118-79-6	0.025	%	89.0	74.5	89.9	89.0	83.8
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	85.7	75.1	91.0	89.0	83.9
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	81.6	68.9	89.2	82.5	77.3
2-Fluorobiphenyl	321-60-8	0.025	%	96.4	84.3	106	98.2	92.5
Anthracene-d10	1719-06-8	0.025	%	88.6	77.2	98.0	90.5	84.6
4-Terphenyl-d14	1718-51-0	0.025	%	93.8	81.2	103	106	98.6
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	108	118	113	122	134
13C8-PFOA	----	0.0002	%	106	106	110	103	106



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_08 _24_SS_Primary_ALS DI	SX_OB_20220402_08 _26_SS_Duplicate_AL S DI	SX_OB_20220402_13 _12_SS_Primary_ALS DI	SX_OB_20220402_16 _06_SS_Triplicate_AL S DI	SX_OB_20220402_16 _11_SS_Primary_ALS DI
Sampling date / time				02-Apr-2022 08:24	02-Apr-2022 08:26	02-Apr-2022 13:12	02-Apr-2022 16:06	02-Apr-2022 16:11
Compound	CAS Number	LOR	Unit	EM2206081-020	EM2206081-021	EM2206081-022	EM2206081-023	EM2206081-024
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.4	9.5	9.5	9.4	9.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220402_20 _00_SS_Primary_ALS DI	SX_OB_20220403_00 _02_SS_Primary_ALS DI	SX_OB_20220403_07 _55_SS_Primary_ALS DI	SX_OB_20220403_07 _56_SS_Duplicate_AL S DI	SX_OB_20220403_11 _53_SS_Primary_ALS DI
Sampling date / time				02-Apr-2022 20:00	03-Apr-2022 00:02	03-Apr-2022 07:55	03-Apr-2022 07:56	03-Apr-2022 11:53
Compound	CAS Number	LOR	Unit	EM2206081-025	EM2206081-026	EM2206081-027	EM2206081-028	EM2206081-029
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.5	9.5	9.5	9.4	9.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220403_16 _04_SS_Triplicate_AL S DI	SX_OB_20220403_16 _05_SS_Primary_ALS DI	SX_OB_20220403_20 _07_SS_Primary_ALS DI	SX_OB_20220404_00 _02_SS_Primary_ALS DI	SX_OB_20220404_03 _59_SS_Primary_ALS DI
Sampling date / time				03-Apr-2022 16:04	03-Apr-2022 16:05	03-Apr-2022 20:07	04-Apr-2022 00:02	04-Apr-2022 03:59
Compound	CAS Number	LOR	Unit	EM2206081-030	EM2206081-031	EM2206081-032	EM2206081-033	EM2206081-034
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.4	9.4	9.3	9.4	9.4



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220402_09 _33_SR_Rinsate_ALS	SX_OB_20220402_09 _34_SB_Blank_ALS	SX_OB_20220403_12 _27_SB_Blank_ALS	SX_OB_20220403_12 _28_SR_Rinsate_ALS	----
Sampling date / time				02-Apr-2022 09:33	02-Apr-2022 09:34	03-Apr-2022 12:27	03-Apr-2022 12:28	----	
Compound	CAS Number	LOR	Unit	EM2206081-003	EM2206081-004	EM2206081-013	EM2206081-014	-----	
				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	<0.01	<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	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220402_09 _33_SR_Rinsate_ALS	SX_OB_20220402_09 _34_SB_Blank_ALS	SX_OB_20220403_12 _27_SB_Blank_ALS	SX_OB_20220403_12 _28_SR_Rinsate_ALS	----
Sampling date / time				02-Apr-2022 09:33	02-Apr-2022 09:34	03-Apr-2022 12:27	03-Apr-2022 12:28	----	
Compound	CAS Number	LOR	Unit	EM2206081-003	EM2206081-004	EM2206081-013	EM2206081-014	-----	
				Result	Result	Result	Result	----	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
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	<0.01	<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	----	
Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	106	97.7	96.3	102	----	
13C8-PFOA	----	0.02	%	101	106	105	103	----	



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: DI WATER LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	41	122
EP074S: VOC Surrogates (Ultra-Trace)			
1,2-Dichloroethane-D4	17060-07-0	59	119
Toluene-D8	2037-26-5	55	117
4-Bromofluorobenzene	460-00-4	59	123
EP075S: Acid Extractable Surrogates (Waste Classification)			
Phenol-d6	13127-88-3	63	134
2-Chlorophenol-D4	93951-73-6	60	125
2,4,6-Tribromophenol	118-79-6	54	129
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)			
Nitrobenzene-D5	4165-60-0	63	131
1,2-Dichlorobenzene-D4	2199-69-1	61	124
2-Fluorobiphenyl	321-60-8	69	131
Anthracene-d10	1719-06-8	70	133
4-Terphenyl-d14	1718-51-0	59	141
EP231S: PFAS Surrogate			
13C4-PFOS	----	68	136
13C8-PFOA	----	69	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	: EM2206081	Page	: 1 of 34
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Contact	: Bronwyn Sheen
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9600
Project	: JC0927	Date Samples Received	: 04-Apr-2022
Order number	: ----	Date Analysis Commenced	: 05-Apr-2022
C-O-C number	: 20220404041402-ALS-21	Issue Date	: 11-Apr-2022
Sampler	: ES, HK - EP risk, LR		
Site	: 20220404041402-ALS-21		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 34		
No. of samples analysed	: 34		



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Inorganics, Springvale, VIC
Nancy Wang	2IC Organic Chemist	Melbourne Organics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Xing Lin	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 (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4272939)									
EM2206066-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	25	30	20.0	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	13	16	21.3	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	25	24	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	25	21	17.3	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	52	53	2.6	0% - 50%
		EG005T: Selenium	7782-49-2	5	mg/kg	8	<5	40.5	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	43	43	0.0	No Limit		
EM2206066-010	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	21	16	30.7	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	7	4	53.9	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	7	<5	33.1	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	10	7	38.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	9	5	56.5	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
EG005T: Zinc	7440-66-6	5	mg/kg	22	14	44.9	No Limit		
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4272941)									



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 (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4272941) - continued									
EM2206081-011	SX_OB_20220403_07_56_ SS_Duplicate_ALS	EG005T: Nickel	7440-02-0	2	mg/kg	170	# 222	26.6	0% - 20%
EM2206161-003	Anonymous	EG005T: Zinc	7440-66-6	5	mg/kg	21	30	34.2	No Limit
EM2206081-011	SX_OB_20220403_07_56_ SS_Duplicate_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	95	83	13.3	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	27	18	40.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	55	55	0.0	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<10	<10	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	85	78	8.4	0% - 50%
EM2206161-003	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	26	22	17.6	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	12	4	103	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	7	<5	30.6	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	7	6	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4275892)									
EM2206029-001	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.7	7.8	0.0	0% - 20%
EM2206066-009	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.9	7.9	0.0	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4275893)									
EM2206081-012	SX_OB_20220403_11_53_ SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%
EM2206166-004	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.9	7.9	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4273786)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	29.2	31.6	7.6	0% - 20%
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EA055: Moisture Content	----	0.1	%	31.0	31.0	0.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4272938)									
EM2206066-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2206066-010	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4272940)									



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 (%)
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4272940) - continued									
EM2206081-011	SX_OB_20220403_07_56_ SS_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2206161-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4274056)									
EM2205490-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2205814-003	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4274057)									
EM2206081-005	SX_OB_20220402_13_12_ SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EM2206081-016	SX_OB_20220403_16_05_ SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	1.3	1.0	24.8	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4274100)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2206095-001	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4274062)									
EM2205490-001	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	140	100	30.4	No Limit
EM2205814-003	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	450	310	37.0	0% - 50%
EK040T: Fluoride Total (QC Lot: 4274063)									
EM2206081-005	SX_OB_20220402_13_12_ SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	120	130	0.0	No Limit
EM2206081-016	SX_OB_20220403_16_05_ SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	160	180	9.9	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4272792)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4268811)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	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 (%)
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4268811) - continued									
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4268811)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4268811)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,1,2,2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit
		EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50
EP074-UT: cis-1,2-Dichloroethene	156-59-2			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1,1,1-Trichloroethane	71-55-6			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Carbon Tetrachloride	56-23-5			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6			0.01	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	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 (%)
EP074I: Volatile Halogenated Compounds (QC Lot: 4268811) - continued									
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.50	<0.50	0.0	No Limit
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.5	<0.5	0.0	No Limit		
EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4272794)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<1.0	<1.0	0.0	No Limit		
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4272794)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	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 (%)
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4272794) - continued									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP075-EM: Phenol	108-95-2	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	0.0	No Limit
		EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	0.0	No Limit
		EP075-EM: Dinoseb	88-85-7	5	mg/kg	<20	<20	0.0	No Limit
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit		
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4272794)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	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 (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4272794) - continued									
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	<1.0	0.0	No Limit
EP075I: Organochlorine Pesticides (QC Lot: 4272794)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	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 (%)
EP075I: Organochlorine Pesticides (QC Lot: 4272794) - continued									
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4268811)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4272793)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_ SS_Triplicate_ALS	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4268811)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4268811) - continued									
EM2206081-001	SX_OB_20220402_08_24_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_SS_Triplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<20	<20	0.0	No Limit
		EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4272793)									
EM2206081-001	SX_OB_20220402_08_24_SS_Primary_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EM2206081-015	SX_OB_20220403_16_04_SS_Triplicate_ALS	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
		EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4272933)									
EM2205490-001	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	0.0004	0.0004	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2206081-008	SX_OB_20220402_20_00_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4272933)									
EM2205490-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: 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



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: 4272933) - continued									
EM2205490-001	Anonymous	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
EM2206081-008	SX_OB_20220402_20_00_ SS_Primary_ALS	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<5 µg/kg	<0.005	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4272933)									
EM2205490-001	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
EM2206081-008	SX_OB_20220402_20_00_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<5.0 µg/kg	<0.0050	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: 4272933) - continued									
EM2206081-008	SX_OB_20220402_20_00_ SS_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4272933)									
EM2205490-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2206081-008	SX_OB_20220402_20_00_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4272933)									
EM2205490-001	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0004	0.0004	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0004	0.0004	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0004	0.0004	0.0	No Limit
EM2206081-008	SX_OB_20220402_20_00_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.0002	mg/kg	<50.0 µg/kg	<0.0500	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<10.0 µg/kg	<0.0100	0.0	No Limit
Sub-Matrix: WATER									
Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4275419)									
EM2206058-002	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2206058-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	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 (%)		
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4275419) - continued											
EM2206058-001	Anonymous	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: 4276902)											
EM2205490-009	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EM2206081-023	SX_OB_20220402_16_06_ SS_Triplicate_ALS DI	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EM2206081-023	SX_OB_20220402_16_06_ SS_Triplicate_ALS DI	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: 4276903)									
		EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
				EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
				EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EM2206081-010	SX_OB_20220403_07_55_ SS_Primary_ALS	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EM2206081-010	SX_OB_20220403_07_55_ SS_Primary_ALS	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		
		EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4275419)									
		EM2206058-002	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorononanoic acid (PFNA)	375-95-1			0.02	µg/L	<0.02	<0.02	0.0	No Limit		
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2			0.02	µg/L	<0.02	<0.02	0.0	No Limit		



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: 4275419) - continued									
EM2206058-002	Anonymous	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
EM2206058-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (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: 4276902)									
EM2205490-009	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (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
EM2206081-023	SX_OB_20220402_16_06_ SS_Triplicate_ALS DI	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (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: 4276903)											
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorotridecanoic acid (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		
EM2206081-010	SX_OB_20220403_07_55_ SS_Primary_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit		
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: Perfluorotridecanoic acid (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		
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4275419)	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit		
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit		
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit		
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit		
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit		
		EM2206058-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
				EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit



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: 4275419) - continued									
EM2206058-001	Anonymous	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: 4276902)									
EM2205490-009	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2206081-023	SX_OB_20220402_16_06_ SS_Triplicate_ALS DI	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: 4276903)									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	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: 4276903) - continued									
EM2206081-001	SX_OB_20220402_08_24_ SS_Primary_ALS	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
EM2206081-010	SX_OB_20220403_07_55_ SS_Primary_ALS	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4275419)									
EM2206058-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2206058-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit



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: 4275419) - continued									
EM2206058-001	Anonymous	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: 4276902)									
EM2205490-009	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2206081-023	SX_OB_20220402_16_06_SS_Triplicate_ALS DI	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: 4276903)									
EM2206081-001	SX_OB_20220402_08_24_SS_Primary_ALS	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
EM2206081-010	SX_OB_20220403_07_55_SS_Primary_ALS	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
EP231P: PFAS Sums (QC Lot: 4275419)									
EM2206058-002	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	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 (%)
EP231P: PFAS Sums (QC Lot: 4275419) - continued									
EM2206058-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4276902)									
EM2205490-009	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EM2206081-023	SX_OB_20220402_16_06_SS_Triplicate_ALS DI	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4276903)									
EM2206081-001	SX_OB_20220402_08_24_SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
EM2206081-010	SX_OB_20220403_07_55_SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit



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

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

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4272939)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	106	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	69.9	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	105	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	99.9	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	95.2	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	83.7	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	90.1	70.0	130	
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----	
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	80.2	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	100	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	73.9	70.0	130	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4272941)									
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	106	70.0	130	
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	67.3	50.0	130	
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	106	70.0	130	
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	99.0	70.0	130	
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	95.8	70.0	130	
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	82.8	70.0	130	
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	91.0	70.0	130	
EG005T: Selenium	7782-49-2	5	mg/kg	<5	----	----	----	----	
EG005T: Silver	7440-22-4	2	mg/kg	<2	2.9 mg/kg	79.9	70.0	130	
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	99.4	70.0	130	
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	74.7	70.0	130	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4273370)									
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.1	----	----	----	----	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4275892)									
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	101	98.8	101	
				----	7 pH Unit	101	99.3	101	
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4275893)									
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit	101	98.8	101	
				----	7 pH Unit	101	99.3	101	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4272938)									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	95.3	70.0	130	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4272940)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4272940) - continued									
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	90.6	70.0	130	
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4274056)									
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	82.2	70.0	130	
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4274057)									
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	82.1	70.0	130	
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4274100)									
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	83.5	70.0	130	
EK040T: Fluoride Total (QCLot: 4274062)									
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	80.4	75.2	110	
EK040T: Fluoride Total (QCLot: 4274063)									
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	103	75.2	110	
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4272792)									
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	111	67.4	136	
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4268811)									
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	89.6	69.2	116	
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	# 65.2	67.7	116	
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	78.2	66.6	115	
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	71.9	65.2	112	
	106-42-3								
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	80.6	69.4	111	
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	78.2	68.4	110	
EP074H: Naphthalene (QCLot: 4268811)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	87.3	72.3	114	
EP074I: Volatile Halogenated Compounds (QCLot: 4268811)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	92.2	47.0	138	
EP074-UT: 1,1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	94.4	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	84.6	72.3	115	
EP074-UT: trans-1,2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	85.3	60.5	122	
EP074-UT: cis-1,2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	86.0	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	82.8	66.6	115	
EP074-UT: 1,1,1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	90.6	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	110	58.4	127	
EP074-UT: 1,2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	85.8	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	74.4	64.7	115	
EP074-UT: 1,1,2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	85.2	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	85.2	60.0	119	
EP074-UT: 1,1,1,2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	85.6	71.8	116	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP074I: Volatile Halogenated Compounds (QCLot: 4268811) - continued								
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	87.2	66.1	116
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	92.3	39.8	128
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	84.8	70.3	113
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	91.2	62.6	113
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	88.4	70.8	110
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	91.8	48.4	120
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4272794)								
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	86.3	74.5	126
EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	88.4	72.7	126
EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	85.1	73.5	132
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	85.7	72.8	128
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	90.8	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	90.8	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	81.3	69.4	126
EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	91.4	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	84.1	54.4	135
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4272794)								
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	87.0	71.5	130
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	83.7	73.4	129
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	83.6	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	90.1	70.9	133
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	89.9	71.8	132
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	103	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	94.3	65.3	134
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	87.8	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	84.8	62.0	128
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	78.5	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4272794)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	85.2	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	86.2	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	86.1	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	86.7	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	87.0	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	87.2	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	87.4	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	88.9	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	89.2	69.6	133



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4272794) - continued									
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	88.9	75.0	133	
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	90.3	75.8	133	
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	90.9	65.1	130	
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	96.6	72.1	134	
EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	95.7	72.9	135	
EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	95.0	71.3	134	
EP075I: Organochlorine Pesticides (QCLot: 4272794)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	90.4	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	92.3	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	86.7	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	85.9	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	86.7	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	87.0	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	86.4	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	88.3	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	88.8	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	88.7	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	85.8	69.4	134	
EP075-EM: 4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	88.6	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	89.8	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	93.3	69.0	143	
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	84.6	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	94.6	71.4	135	
EP075-EM: 4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	89.9	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	88.6	70.2	135	
EP075-EM: 4,4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	87.9	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	89.3	63.6	135	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4268811)									
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	76.6	61.1	119	
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4272793)									
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	760 mg/kg	104	74.4	129	
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	3270 mg/kg	102	81.0	123	
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1550 mg/kg	99.9	81.8	121	
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	102	70.0	130	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4268811)									
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	86.1	59.9	119	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4268811) - continued								
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4272793)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1110 mg/kg	126	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	4180 mg/kg	96.3	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	290 mg/kg	99.4	73.3	136
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	102	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4272933)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	101	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	88.2	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	67.5	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	124	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	118	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	108	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4272933)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	103	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.1	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.8	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	124	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.6	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	109	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	80.2	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.7	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	125	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4272933)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	117	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	116	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	78.3	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	114	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	97.8	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.9	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	110	61.0	139



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4272933)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	100	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	117	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	109	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	129	70.0	130	
EP231P: PFAS Sums (QCLot: 4272933)									
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 (%)		Acceptable Limits (%)	
						LCS	Low	High	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4275419)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	96.4	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	96.8	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	93.3	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	99.8	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	94.6	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	105	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4276902)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	95.5	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	96.6	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	94.3	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	94.6	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	102	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4276903)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	112	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	95.4	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	96.6	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	103	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	114	53.0	142	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4275419)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	92.6	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	96.5	72.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4275419) - continued									
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	95.1	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	104	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	92.5	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	104	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	94.5	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	118	71.0	132	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4276902)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	104	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	108	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	99.3	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	95.9	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	101	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	98.5	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	99.1	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	93.1	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	99.6	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: 4276903)									
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	103	72.0	129	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	102	72.0	129	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	97.4	72.0	130	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	97.7	71.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	97.0	69.0	130	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	102	71.0	129	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	87.1	69.0	133	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	101	72.0	134	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	91.5	65.0	144	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	117	71.0	132	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4275419)									
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	99.3	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	111	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.6	70.0	130	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4275419) - continued									
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	105	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	102	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	99.9	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4276902)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	100	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	113	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	99.2	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	91.2	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	106	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	110	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	92.2	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4276903)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	107	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	120	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	98.2	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	93.4	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	96.0	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	99.2	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	95.1	61.0	135	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4275419)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	98.7	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	96.6	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	122	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	83.8	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4276902)									
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	105	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	115	67.0	138	



Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4276902) - continued								
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	99.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4276903)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	98.5	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	100	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	115	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	94.6	70.0	130
EP231P: PFAS Sums (QCLot: 4275419)								
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: 4276902)								
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: 4276903)								
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	Spike Recovery(%)	Acceptable Limits (%)	
					MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4272939)							
EM2206066-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	91.9	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	100	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	95.9	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	101	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	102	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	97.6	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	98.5	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4272941)							



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4272941) - continued							
EM2206081-012	SX_OB_20220403_11_53_SS_Primary_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	89.5	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	93.2	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	104	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	105	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	94.4	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	96.4	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	89.3	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4272938)							
EM2206066-002	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	99.8	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4272940)							
EM2206081-012	SX_OB_20220403_11_53_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	103	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4274056)							
EM2205490-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	98.4	58.0	114
EM2205490-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	# 52.9	58.0	114
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4274057)							
EM2206081-006	SX_OB_20220402_16_06_SS_Triplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	87.8	58.0	114
EM2206081-006	SX_OB_20220402_16_06_SS_Triplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	99.2	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4274100)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	92.8	70.0	130
EK040T: Fluoride Total (QCLot: 4274062)							
EM2205490-002	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	77.8	70.0	130
EK040T: Fluoride Total (QCLot: 4274063)							
EM2206081-006	SX_OB_20220402_16_06_SS_Triplicate_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	76.3	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4272792)							
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	110	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4268811)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	84.8	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	114	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4268811)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	99.2	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	86.0	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	97.3	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4272794)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	86.2	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	86.3	41.5	139



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4272794) - continued							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	71.5	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4272794)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	86.9	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	88.1	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4272794)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	79.6	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	84.4	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4268811)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	104	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4272793)							
EM2206081-006	SX_OB_20220402_16_06_SS_Triplicate_ALS	EP071-EM: C10 - C14 Fraction	----	760 mg/kg	103	71.3	126
		EP071-EM: C15 - C28 Fraction	----	3270 mg/kg	99.7	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1550 mg/kg	97.9	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5580 mg/kg	99.2	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4268811)							
EM2206081-002	SX_OB_20220402_08_26_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	106	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4272793)							
EM2206081-006	SX_OB_20220402_16_06_SS_Triplicate_ALS	EP071-EM: >C10 - C16 Fraction	----	1110 mg/kg	123	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	4180 mg/kg	94.0	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	290 mg/kg	102	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5580 mg/kg	99.7	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4272933)							
EM2205490-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	98.4	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	88.0	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	69.9	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	129	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	101	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	106	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4272933)							
EM2205490-002	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	105	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	105	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	93.6	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	106	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	103	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	127	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	87.9	69.0	133



Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4272933) - continued							
EM2205490-002	Anonymous	EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	97.8	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	85.5	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	87.1	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	122	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4272933)							
EM2205490-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	107	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	124	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	88.2	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	116	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	90.1	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	101	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	99.9	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4272933)							
EM2205490-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	91.7	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	93.4	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	105	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	101	70.0	130

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Low	High
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4275419)							
EM2206058-003	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	111	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	96.8	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	91.4	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	100	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	103	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	99.9	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4276902)							
EM2205490-010	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	101	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	92.3	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	97.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	100	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	92.1	65.0	140



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: 4276902) - continued							
EM2205490-010	Anonymous	EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	76.7	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4276903)							
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	108	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	88.2	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	95.3	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	95.1	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	96.2	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	107	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4275419)							
EM2206058-003	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	94.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	96.0	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	97.9	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	98.4	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	98.0	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	94.3	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	113	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	103	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	108	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	107	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	131	71.0	132
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4276902)					
EM2205490-010	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	91.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	99.9	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	94.0	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	95.9	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	96.0	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	95.7	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	87.2	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	78.4	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	78.2	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	80.7	71.0	132
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4276903)					
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	89.1	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	101	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	94.3	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	96.9	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	97.7	71.0	133



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	Spike Recovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4276903) - continued							
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	98.8	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	101	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	92.7	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	102	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	91.4	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	115	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4275419)							
EM2206058-003	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	104	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	107	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	110	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	100	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	103	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	135	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	115	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4276902)							
EM2205490-010	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	87.1	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	69.2	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	91.6	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	81.8	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	82.2	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	65.2	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4276903)							
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	104	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	106	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	102	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	93.0	70.0	130



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: 4276903) - continued							
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	99.2	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	105	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4275419)							
EM2206058-003	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	90.7	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	102	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	104	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	85.1	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4276902)							
EM2205490-010	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	92.6	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	96.4	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	95.4	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	70.9	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4276903)							
EM2206081-005	SX_OB_20220402_13_12_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	91.9	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	106	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	76.5	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2206081	Page	: 1 of 18
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +6138549 9600
Project	: JC0927	Date Samples Received	: 04-Apr-2022
Site	: 20220404041402-ALS-21	Issue Date	: 11-Apr-2022
Sampler	: ES, HK - EP risk, LR	No. of samples received	: 34
Order number	: ----	No. of samples analysed	: 34

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.
- Duplicate outliers exist - please see following pages for full details.
- Laboratory Control outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EG005(ED093)T: Total Metals by ICP-AES	EM2206081--011	SX_OB_20220403_07_56_SS	Nickel	7440-02-0	26.6 %	0% - 20%	RPD exceeds LOR based limits
Laboratory Control Spike (LCS) Recoveries							
EP074A: Monocyclic Aromatic Hydrocarbons	QC-4268811-001	----	Toluene	108-88-3	65.2 %	67.7-116%	Recovery less than lower control limit
Matrix Spike (MS) Recoveries							
EG048: Hexavalent Chromium (Alkaline Digest)	EM2205490--002	Anonymous	Hexavalent Chromium	18540-29-9	52.9 %	58.0-114%	Recovery less than lower data quality objective

Regular Sample Surrogates

Sub-Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Samples Submitted							
EP074S: VOC Surrogates (Ultra-Trace)	EM2206081-019	SX_OB_20220404_03_59_SS	Toluene-D8	2037-26-5	53.7 %	55.0-117 %	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	
EA001: pH in soil using 0.01M CaCl extract								
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	08-Apr-2022	09-Apr-2022	✓	08-Apr-2022	08-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	08-Apr-2022	10-Apr-2022	✓	08-Apr-2022	08-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	08-Apr-2022	11-Apr-2022	✓	08-Apr-2022	08-Apr-2022	✓



Matrix: SOIL

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

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	----	----	----	07-Apr-2022	16-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	----	----	----	07-Apr-2022	17-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	----	----	----	07-Apr-2022	18-Apr-2022	✓
EG005(ED093T): Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	08-Apr-2022	29-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	08-Apr-2022	30-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	08-Apr-2022	01-Oct-2022	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	30-Apr-2022	✓	08-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	01-May-2022	✓	08-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	02-May-2022	✓	08-Apr-2022	02-May-2022	✓



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	
EG048: Hexavalent Chromium (Alkaline Digest)								
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	08-Apr-2022	30-Apr-2022	✓	08-Apr-2022	15-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	08-Apr-2022	01-May-2022	✓	08-Apr-2022	15-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	08-Apr-2022	02-May-2022	✓	08-Apr-2022	15-Apr-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	21-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	21-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	21-Apr-2022	✓
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	08-Apr-2022	30-Apr-2022	✓	11-Apr-2022	30-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	08-Apr-2022	01-May-2022	✓	11-Apr-2022	01-May-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	08-Apr-2022	02-May-2022	✓	11-Apr-2022	02-May-2022	✓



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
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)							
SX_OB_20220402_08_24_SS_Primary_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_11_SS_Primary_ALS - DI,	SX_OB_20220402_08_26_SS_Duplicate_ALS - DI, SX_OB_20220402_16_06_SS_Triplicate_ALS - DI, SX_OB_20220402_20_00_SS_Primary_ALS - DI	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)							
SX_OB_20220403_00_02_SS_Primary_ALS - DI, SX_OB_20220403_07_56_SS_Duplicate_ALS - DI, SX_OB_20220403_16_04_SS_Triplicate_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI	SX_OB_20220403_07_55_SS_Primary_ALS - DI, SX_OB_20220403_11_53_SS_Primary_ALS - DI, SX_OB_20220403_16_05_SS_Primary_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)							
SX_OB_20220404_00_02_SS_Primary_ALS - DI,	SX_OB_20220404_03_59_SS_Primary_ALS - DI	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022



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	
EP074A: Monocyclic Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	06-Apr-2022	09-Apr-2022	✓	06-Apr-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	06-Apr-2022	10-Apr-2022	✓	06-Apr-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	06-Apr-2022	11-Apr-2022	✓	06-Apr-2022	11-Apr-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	06-Apr-2022	09-Apr-2022	✓	06-Apr-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	06-Apr-2022	10-Apr-2022	✓	06-Apr-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	06-Apr-2022	11-Apr-2022	✓	06-Apr-2022	11-Apr-2022	✓
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	06-Apr-2022	09-Apr-2022	✓	06-Apr-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	06-Apr-2022	10-Apr-2022	✓	06-Apr-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	06-Apr-2022	11-Apr-2022	✓	06-Apr-2022	11-Apr-2022	✓



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	
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022	✓



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	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	06-Apr-2022	09-Apr-2022	✓	06-Apr-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	06-Apr-2022	10-Apr-2022	✓	06-Apr-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	06-Apr-2022	11-Apr-2022	✓	06-Apr-2022	11-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022	✓



Matrix: SOIL

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

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	06-Apr-2022	09-Apr-2022	✓	06-Apr-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	16-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	06-Apr-2022	10-Apr-2022	✓	06-Apr-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	17-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	06-Apr-2022	11-Apr-2022	✓	06-Apr-2022	11-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	18-Apr-2022	✓	08-Apr-2022	17-May-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	08-Apr-2022	17-May-2022	✓



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) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	08-Apr-2022	17-May-2022	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	08-Apr-2022	17-May-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	08-Apr-2022	17-May-2022	✓



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) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS	02-Apr-2022	07-Apr-2022	29-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS	SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS,	03-Apr-2022	07-Apr-2022	30-Sep-2022	✓	08-Apr-2022	17-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220404_00_02_SS_Primary_ALS,	SX_OB_20220404_03_59_SS_Primary_ALS	04-Apr-2022	07-Apr-2022	01-Oct-2022	✓	08-Apr-2022	17-May-2022	✓

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) SX_OB_20220402_09_33_SR_Rinsate_ALS,	SX_OB_20220402_09_34_SB_Blank_ALS	02-Apr-2022	08-Apr-2022	29-Sep-2022	✓	08-Apr-2022	29-Sep-2022	✓
HDPE (no PTFE) (EP231X) SX_OB_20220403_12_27_SB_Blank_ALS,	SX_OB_20220403_12_28_SR_Rinsate_ALS	03-Apr-2022	08-Apr-2022	30-Sep-2022	✓	08-Apr-2022	30-Sep-2022	✓
HDPE (no PTFE) (EP231X) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS, SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS, SX_OB_20220404_03_59_SS_Primary_ALS, SX_OB_20220402_08_26_SS_Duplicate_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_06_SS_Triplicate_ALS - DI, SX_OB_20220402_20_00_SS_Primary_ALS - DI, SX_OB_20220403_07_55_SS_Primary_ALS - DI, SX_OB_20220403_11_53_SS_Primary_ALS - DI, SX_OB_20220403_16_05_SS_Primary_ALS - DI, SX_OB_20220404_00_02_SS_Primary_ALS - DI,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS, SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220404_00_02_SS_Primary_ALS, SX_OB_20220402_08_24_SS_Primary_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_11_SS_Primary_ALS - DI, SX_OB_20220403_00_02_SS_Primary_ALS - DI, SX_OB_20220403_07_56_SS_Duplicate_ALS - DI, SX_OB_20220403_16_04_SS_Triplicate_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI, SX_OB_20220404_03_59_SS_Primary_ALS - DI,	07-Apr-2022	08-Apr-2022	04-Oct-2022	✓	08-Apr-2022	04-Oct-2022	✓



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) SX_OB_20220402_09_33_SR_Rinsate_ALS,	SX_OB_20220402_09_34_SB_Blank_ALS	02-Apr-2022	08-Apr-2022	29-Sep-2022	✓	08-Apr-2022	29-Sep-2022	✓
HDPE (no PTFE) (EP231X) SX_OB_20220403_12_27_SB_Blank_ALS,	SX_OB_20220403_12_28_SR_Rinsate_ALS	03-Apr-2022	08-Apr-2022	30-Sep-2022	✓	08-Apr-2022	30-Sep-2022	✓
HDPE (no PTFE) (EP231X) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS, SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS, SX_OB_20220404_03_59_SS_Primary_ALS, SX_OB_20220402_08_26_SS_Duplicate_ALS - DI, SX_OB_20220402_16_06_SS_Triplicate_ALS - DI, SX_OB_20220402_20_00_SS_Primary_ALS - DI, SX_OB_20220403_07_55_SS_Primary_ALS - DI, SX_OB_20220403_11_53_SS_Primary_ALS - DI, SX_OB_20220403_16_05_SS_Primary_ALS - DI, SX_OB_20220404_00_02_SS_Primary_ALS - DI,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS, SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220404_00_02_SS_Primary_ALS, SX_OB_20220402_08_24_SS_Primary_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_11_SS_Primary_ALS - DI, SX_OB_20220403_00_02_SS_Primary_ALS - DI, SX_OB_20220403_07_56_SS_Duplicate_ALS - DI, SX_OB_20220403_16_04_SS_Triplicate_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI, SX_OB_20220404_03_59_SS_Primary_ALS - DI	07-Apr-2022	08-Apr-2022	04-Oct-2022	✓	08-Apr-2022	04-Oct-2022	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X) SX_OB_20220402_09_33_SR_Rinsate_ALS,	SX_OB_20220402_09_34_SB_Blank_ALS	02-Apr-2022	08-Apr-2022	29-Sep-2022	✓	08-Apr-2022	29-Sep-2022	✓
HDPE (no PTFE) (EP231X) SX_OB_20220403_12_27_SB_Blank_ALS,	SX_OB_20220403_12_28_SR_Rinsate_ALS	03-Apr-2022	08-Apr-2022	30-Sep-2022	✓	08-Apr-2022	30-Sep-2022	✓
HDPE (no PTFE) (EP231X) SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS, SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS, SX_OB_20220404_03_59_SS_Primary_ALS, SX_OB_20220402_08_26_SS_Duplicate_ALS - DI, SX_OB_20220402_16_06_SS_Triplicate_ALS - DI, SX_OB_20220402_20_00_SS_Primary_ALS - DI, SX_OB_20220403_07_55_SS_Primary_ALS - DI, SX_OB_20220403_11_53_SS_Primary_ALS - DI, SX_OB_20220403_16_05_SS_Primary_ALS - DI, SX_OB_20220404_00_02_SS_Primary_ALS - DI,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS, SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220404_00_02_SS_Primary_ALS, SX_OB_20220402_08_24_SS_Primary_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_11_SS_Primary_ALS - DI, SX_OB_20220403_00_02_SS_Primary_ALS - DI, SX_OB_20220403_07_56_SS_Duplicate_ALS - DI, SX_OB_20220403_16_04_SS_Triplicate_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI, SX_OB_20220404_03_59_SS_Primary_ALS - DI	07-Apr-2022	08-Apr-2022	04-Oct-2022	✓	08-Apr-2022	04-Oct-2022	✓



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)								
SX_OB_20220402_09_33_SR_Rinsate_ALS, SX_OB_20220402_09_33_SR_Rinsate_ALS	SX_OB_20220402_09_34_SB_Blank_ALS	02-Apr-2022	08-Apr-2022	29-Sep-2022	✓	08-Apr-2022	29-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220403_12_27_SB_Blank_ALS, SX_OB_20220403_12_27_SB_Blank_ALS	SX_OB_20220403_12_28_SR_Rinsate_ALS	03-Apr-2022	08-Apr-2022	30-Sep-2022	✓	08-Apr-2022	30-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS, SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS, SX_OB_20220404_03_59_SS_Primary_ALS, SX_OB_20220402_08_26_SS_Duplicate_ALS - DI, SX_OB_20220402_16_06_SS_Triplicate_ALS - DI, SX_OB_20220402_20_00_SS_Primary_ALS - DI, SX_OB_20220403_07_55_SS_Primary_ALS - DI, SX_OB_20220403_11_53_SS_Primary_ALS - DI, SX_OB_20220403_16_05_SS_Primary_ALS - DI, SX_OB_20220404_00_02_SS_Primary_ALS - DI,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS, SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220404_00_02_SS_Primary_ALS, SX_OB_20220402_08_24_SS_Primary_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_11_SS_Primary_ALS - DI, SX_OB_20220403_00_02_SS_Primary_ALS - DI, SX_OB_20220403_07_56_SS_Duplicate_ALS - DI, SX_OB_20220403_16_04_SS_Triplicate_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI, SX_OB_20220404_03_59_SS_Primary_ALS - DI	07-Apr-2022	08-Apr-2022	04-Oct-2022	✓	08-Apr-2022	04-Oct-2022	✓
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
SX_OB_20220402_09_33_SR_Rinsate_ALS, SX_OB_20220402_09_33_SR_Rinsate_ALS	SX_OB_20220402_09_34_SB_Blank_ALS	02-Apr-2022	08-Apr-2022	29-Sep-2022	✓	08-Apr-2022	29-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220403_12_27_SB_Blank_ALS, SX_OB_20220403_12_27_SB_Blank_ALS	SX_OB_20220403_12_28_SR_Rinsate_ALS	03-Apr-2022	08-Apr-2022	30-Sep-2022	✓	08-Apr-2022	30-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220402_08_24_SS_Primary_ALS, SX_OB_20220402_13_12_SS_Primary_ALS, SX_OB_20220402_16_11_SS_Primary_ALS, SX_OB_20220403_00_02_SS_Primary_ALS, SX_OB_20220403_07_56_SS_Duplicate_ALS, SX_OB_20220403_16_04_SS_Triplicate_ALS, SX_OB_20220403_20_07_SS_Primary_ALS, SX_OB_20220404_03_59_SS_Primary_ALS, SX_OB_20220402_08_26_SS_Duplicate_ALS - DI, SX_OB_20220402_16_06_SS_Triplicate_ALS - DI, SX_OB_20220402_20_00_SS_Primary_ALS - DI, SX_OB_20220403_07_55_SS_Primary_ALS - DI, SX_OB_20220403_11_53_SS_Primary_ALS - DI, SX_OB_20220403_16_05_SS_Primary_ALS - DI, SX_OB_20220404_00_02_SS_Primary_ALS - DI,	SX_OB_20220402_08_26_SS_Duplicate_ALS, SX_OB_20220402_16_06_SS_Triplicate_ALS, SX_OB_20220402_20_00_SS_Primary_ALS, SX_OB_20220403_07_55_SS_Primary_ALS, SX_OB_20220403_11_53_SS_Primary_ALS, SX_OB_20220403_16_05_SS_Primary_ALS, SX_OB_20220404_00_02_SS_Primary_ALS, SX_OB_20220402_08_24_SS_Primary_ALS - DI, SX_OB_20220402_13_12_SS_Primary_ALS - DI, SX_OB_20220402_16_11_SS_Primary_ALS - DI, SX_OB_20220403_00_02_SS_Primary_ALS - DI, SX_OB_20220403_07_56_SS_Duplicate_ALS - DI, SX_OB_20220403_16_04_SS_Triplicate_ALS - DI, SX_OB_20220403_20_07_SS_Primary_ALS - DI, SX_OB_20220404_03_59_SS_Primary_ALS - DI	07-Apr-2022	08-Apr-2022	04-Oct-2022	✓	08-Apr-2022	04-Oct-2022	✓



Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

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

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	15	13.33	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
pH in soil using a 0.01M CaCl2 extract	EA001	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	6	40	15.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Matrix: **SOIL** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER** Evaluation: * = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	47	12.77	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	47	6.38	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	47	6.38	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	47	6.38	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
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
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).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	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.
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
NaOH leach for CN in Soils	CN-PR	SOIL	In house: APHA 4500 CN. Samples are extracted by end-over-end tumbling with NaOH.
pH in soil using a 0.01M CaCl ₂ extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Alkaline digestion for Hexavalent Chromium	EG048PR	SOIL	In house: Referenced to USEPA SW846, Method 3060A.
Total Fluoride	EK040T-PR	SOIL	In house: Samples are fused with Sodium Carbonate / Potassium Carbonate flux.
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3).
Methanolic Extraction of Soils - Ultra-trace.	ORG16-UT	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids - VIC EPA Screen	ORG17-EM	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.



<i>Preparation Methods</i>	<i>Method</i>	<i>Matrix</i>	<i>Method Descriptions</i>
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	SOIL	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.
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.