TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	C03.0120220407132213_05	This report is attached as part of a WCR form referencing WGT-302-000-WKN-CJH-105-SWI-0001_01

1. Motherhub Summary

Source TBM/Bin at Pivot	1	Source Geological Domain	3
Approx. Source Tunnel Chainage From	258	Approx. Source Tunnel Chainage To	273
Approx. Rings From	109	Approx. Rings To	115
Foaming Agent	TamSoil 287AC	Water Source	Potable (City West Water)
For BSF Holding Bay No:	C03.01	Start of Filling From (Time / date)	23/03/2022
Tonnes Put in Holding Bay No:	6916.76	Finish of Filling (Time / Date)	24/03/2022
Classified Volume (LCM)	4000	Spoil Classification Decision	NPIW Containment
Sampling Ratio (samples per LCM)	1 : 181.82	Approx. Bank Cubic Meters (BCM)	2868.17

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, is 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

Table 3.1 - Applicable Sample ID's

Table 3.1 - 1 Applicable Sample ID's

Applicable Spoil Sample ID's		
SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220323_12_23_SS_Primary_EUF
SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220323_12_17_SS_Primary_ALS
SX_OB_20220324_08_13_SS_Triplicate_EUF	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220323_08_21_SS_Triplicate_EUF
SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_08_19_SS_Duplicate_ALS
SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220323_16_11_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS
SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_08_12_SS_Primary_EUF
SX_OB_20220323_16_02_SS_Duplicate_EUF		
Total Sample Numbers	22	Ratio Acceptable
Primary Sample Numbers	16	Yes
Classified Volume (LCM)	4000 m^3	
Volume: Sample Number Ratio (Samples per LCM)	1 : 181.82	

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

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)
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 If the answer is Yes, go to E. If the answer is No, go to B.	**Yes**
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? If the answer is Yes, go to C. If the answer is No, go to D.	**NA**
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)?	**NA**
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)?	**NA**
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?	**Yes**
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?	**No**

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 TC0 ?	**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**
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	
Notes: 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	

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	22*	16	1 : 181.82	22	17	29.45	32.3	55	20	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Chromium (Hexavalent)	mg/kg	1	22*	16	1 : 181.82	5	<1.0	1.26	NA	1.5	1	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Nickel	mg/kg	5	22*	16	1 : 181.82	22	110	173.5	185.4	240	60	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Fluoride	mg/kg	100	22*	16	1 : 181.82	11	<100	334	NA	880	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	22*	16	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFOA	ug/kg	5	22*	16	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFHxS	ug/kg	5	22*	16	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
ASLP (pH= 5) PFAS Concentrations											
PFOA	ug/L	0.01	22*	16	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	22*	16	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment
ASLP (pH= 7) PFAS Concentrations											
PFOA	ug/L	0.01	22*	16	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	22*	16	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)

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.	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: 1. Technical discussion around the naturally occurring metal concentrations found in soils beneath the WGTP is detailed in *Golder (2017b) – Technical Report B, Appendix E – Environmental characterisation of spoil (natural soil and rock).* 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. a. **Arsenic** – *Golder (2017b) – Technical Report B, Appendix E* section 6.2 *Arsenic enrichment in the residual soil of the upper Older Volcanics (Tvo1)* 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: 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. 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. b. **Nickel** – *Golder (2017b) – Technical Report B, Appendix E* section 6.3 *Nickel enrichment within the upper Older Volcanics* found that 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 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 Tvo2 soil) indicating that the nickel is likely associated with geochemical enrichment rather than added contamination. iv. Enriched nickel concentrations also corresponded with enriched copper (Tvo2 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 results 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.*
    - *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.

												Victorian Background Soil Database Soil greater than 0.6 m below surface				Findings		
Unit	Element Exceeding Criteria	Count	Detects	Min	Max	Mean	Median	Standard Deviation	Count of Exceedance	95% UCL	Fill Material Upper Limit	Count	Min#	Max	Mean	95% UCL Statistical Assessment	Victorian Soil Database Assessment	Classification as PIW
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:

   i. Newer Volcanics Group – Maximum 820 mg/kg
   ii. Older Volcanics – Maximum 600 mg/kg
   iii. Sub-Basaltic Alluvium – Maximum 240 mg/kg

	In addition, the 95% UCLs calculated for Newer Volcanics Group and Older Volcanics, found to be 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. A review of the Agon data for spoil reported in this data set shows: • 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. The results also show that there are no synthetic compounds reported above the laboratory LOR, another indication that anthropogenic contamination is not present.
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" therefore sampling ratio of only Primary Samples to LCM has been applied for spoil categorisation 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.

5. Attachments

ATTACHMENT A: TABULATED RESULTS

ATTACHMENT B: 95% UCL AVE CALCULATIONS

ATTACHMENT C: LABORATORY CERTIFICATES

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ATTACHMENT A: TABULATED RESULTS

								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
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	720
EPA Victoria IWRG621 Category C Leached Upper Limits																		
EPA Victoria IWRG621 Category C Upper Limts								500	100	5,000		500	1,500	75	1,000	3,000	50	180
EPA Victoria IWRG621 Fill Upper Limits								20	3	100		1	300	1	40	60	10	10
Location Code	**Field ID**	**Sample Code**	**Date**	**Lab Report Number**	**Lab Name**	**Sample Type**	**Parent Sample**											
C03.01	SX_OB_20220323_08_12_SS_Pr	M22-Ma50296	23/03/2022	873973	MGT	Normal		33	<0.4	79	160	<1	5.6	<0.1	<5	240	<2	<2
C03.01	SX_OB_20220323_08_12_SS_Pr	M22-Ma50306	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_08_12_SS_Pr	M22-Ma50314	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_08_17_SS_Pr	EM2205177001	23/03/2022	EM2205177	ALSE-Melbourne	Normal		20	<1	49	103	1.4	<5	<0.1	<5	178	<5	<2
C03.01	SX_OB_20220323_08_17_SS_Pr	EM2205177009	23/03/2022	EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_D	EM2205177002	23/03/2022	EM2205177	ALSE-Melbourne	Field_D	EM2205177001	22	<1	53	104	<1.0	<5	<0.1	<5	162	<5	<2
C03.01	SX_OB_20220323_08_19_SS_D	EM2205177010	23/03/2022	EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
C03.01	SX_OB_20220323_08_21_SS_Tr	M22-Ma50297	23/03/2022	873973	MGT	Interlab_D	EM2205177001	17	<0.4	43	62	<1	<5	<0.1	<5	120	<2	<2
C03.01	SX_OB_20220323_08_21_SS_Tr	M22-Ma50307	23/03/2022	873973	MGT	Interlab_D	EM2205177001											
C03.01	SX_OB_20220323_08_21_SS_Tr	M22-Ma50315	23/03/2022	873973	MGT	Interlab_D	EM2205177009											
C03.01	SX_OB_20220323_12_17_SS_Pr	EM2205177003	23/03/2022	EM2205177	ALSE-Melbourne	Normal		30	<1	57	116	1.0	<5	<0.1	<5	179	<5	<2
C03.01	SX_OB_20220323_12_17_SS_Pr	EM2205177011	23/03/2022	EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_12_23_SS_Pr	M22-Ma50298	23/03/2022	873973	MGT	Normal		28	<0.4	62	140	<1	<5	<0.1	<5	190	<2	<2
C03.01	SX_OB_20220323_12_23_SS_Pr	M22-Ma50308	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_12_23_SS_Pr	M22-Ma50316	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_16_01_SS_Pr	M22-Ma50301	23/03/2022	873973	MGT	Normal		30	<0.4	60	120	<1	<5	<0.1	<5	200	<2	<2
C03.01	SX_OB_20220323_16_01_SS_Pr	M22-Ma50309	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_16_01_SS_Pr	M22-Ma50317	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_D	M22-Ma50302	23/03/2022	873973	MGT	Field_D	M22-Ma50301	31	<0.4	61	140	<1	<5	<0.1	<5	220	<2	<2
C03.01	SX_OB_20220323_16_02_SS_D	M22-Ma50310	23/03/2022	873973	MGT	Field_D	M22-Ma50309											
C03.01	SX_OB_20220323_16_02_SS_D	M22-Ma50318	23/03/2022	873973	MGT	Field_D	M22-Ma50317											
C03.01	SX_OB_20220323_16_04_SS_Tr	EM2205177004	23/03/2022	EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	32	<1	56	111	<1.0	<5	<0.1	<5	177	<5	<2
C03.01	SX_OB_20220323_16_04_SS_Tr	EM2205177012	23/03/2022	EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
C03.01	SX_OB_20220323_16_11_SS_Pr	EM2205177005	23/03/2022	EM2205177	ALSE-Melbourne	Normal		26	<1	52	119	<1.0	<5	<0.1	<5	164	<5	<2
C03.01	SX_OB_20220323_16_11_SS_Pr	EM2205177013	23/03/2022	EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_19_59_SS_Pr	M22-Ma50303	23/03/2022	873973	MGT	Normal		29	<0.4	41	49	<1	<5	<0.1	<5	110	<2	<2
C03.01	SX_OB_20220323_19_59_SS_Pr	M22-Ma50311	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_19_59_SS_Pr	M22-Ma50319	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_20_07_SS_Pr	EM2205177006	23/03/2022	EM2205177	ALSE-Melbourne	Normal		32	<1	53	103	1.0	<5	<0.1	<5	179	<5	<2
C03.01	SX_OB_20220323_20_07_SS_Pr	EM2205177014	23/03/2022	EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_23_59_SS_Pr	M22-Ma50304	23/03/2022	873973	MGT	Normal		19	<0.4	41	52	<1	<5	<0.1	<5	120	<2	<2
C03.01	SX_OB_20220323_23_59_SS_Pr	M22-Ma50312	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220323_23_59_SS_Pr	M22-Ma50320	23/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220324_00_04_SS_Pr	EM2205177007	24/03/2022	EM2205177	ALSE-Melbourne	Normal		31	<1	55	112	1.5	<5	<0.1	<5	168	<5	<2
C03.01	SX_OB_20220324_00_04_SS_Pr	EM2205177015	24/03/2022	EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_03_56_SS_Pr	M22-Ma50305	24/03/2022	873973	MGT	Normal		55	<0.4	54	140	<1	6.0	<0.1	<5	160	<2	<2
C03.01	SX_OB_20220324_03_56_SS_Pr	M22-Ma50313	24/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220324_03_56_SS_Pr	M22-Ma50321	24/03/2022	873973	MGT	Normal												
C03.01	SX_OB_20220324_04_00_SS_Pr	EM2205177008	24/03/2022	EM2205177	ALSE-Melbourne	Normal		32	<1	58	107	1.3	<5	<0.1	<5	167	<5	<2
C03.01	SX_OB_20220324_04_00_SS_Pr	EM2205177016	24/03/2022	EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_07_SS_Pr	EM2205361001	24/03/2022	EM2205361	ALSE-Melbourne	Normal		24	<1	54	96	1.4	<5	<0.1	<5	163	<5	<2
C03.01	SX_OB_20220324_08_07_SS_Pr	EM2205361011	24/03/2022	EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_D	EM2205361002	24/03/2022	EM2205361	ALSE-Melbourne	Field_D	EM2205361001	27	<1	57	102	<1.0	<5	<0.1	<5	169	<5	<2
C03.01	SX_OB_20220324_08_11_SS_D	EM2205361012	24/03/2022	EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
C03.01	SX_OB_20220324_08_13_SS_Tr	M22-Ma53715	24/03/2022	874462	MGT	Interlab_D	EM2205361001	36	<0.4	65	130	<1	<5	<0.1	<5	210	<2	<2
C03.01	SX_OB_20220324_08_13_SS_Tr	M22-Ma53723	24/03/2022	874462	MGT	Interlab_D	EM2205361001											
C03.01	SX_OB_20220324_08_13_SS_Tr	M22-Ma53731	24/03/2022	874462	MGT	Interlab_D	EM2205361011											
C03.01	SX_OB_20220324_08_18_SS_Pr	M22-Ma53714	24/03/2022	874462	MGT	Normal		25	<0.4	57	120	<1	<5	<0.1	<5	170	<2	<2
C03.01	SX_OB_20220324_08_18_SS_Pr	M22-Ma53722	24/03/2022	874462	MGT	Normal												
C03.01	SX_OB_20220324_08_18_SS_Pr	M22-Ma53730	24/03/2022	874462	MGT	Normal												
C03.01	SX_OB_20220324_12_18_SS_Pr	EM2205361005	24/03/2022	EM2205361	ALSE-Melbourne	Normal		34	<1	56	102	1.2	<5	<0.1	<5	151	<5	<2
C03.01	SX_OB_20220324_12_18_SS_Pr	EM2205361013	24/03/2022	EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_12_27_SS_Pr	M22-Ma53713	24/03/2022	874462	MGT	Normal		35	<0.4	71	140	<1	<5	<0.1	<5	220	<2	<2
C03.01	SX_OB_20220324_12_27_SS_Pr	M22-Ma53721	24/03/2022	874462	MGT	Normal												
C03.01	SX_OB_20220324_12_27_SS_Pr	M22-Ma53729	24/03/2022	874462	MGT	Normal												

				PAH																					
		Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		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	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																									
EPA PFAS Classification - Tunnel Zone - No option for c																									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits			140,000	400									20												400
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts		500	35,000	100									5												100
EPA Victoria IWRG621 Fill Upper Limits		50	200	20									1												20
Location Code	**Field ID**																								
C03.01	SX_OB_20220323_08_12_SS_Pr	<10	140			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_12_SS_Pr																								
C03.01	SX_OB_20220323_08_12_SS_Pr																								
C03.01	SX_OB_20220323_08_17_SS_Pr	<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	<0.5	<0.5	
C03.01	SX_OB_20220323_08_17_SS_Pr																								
C03.01	SX_OB_20220323_08_19_SS_Du	<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	<0.5	<0.5	
C03.01	SX_OB_20220323_08_19_SS_Du																								
C03.01	SX_OB_20220323_08_21_SS_Tr	<10	69			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_21_SS_Tr																								
C03.01	SX_OB_20220323_08_21_SS_Tr																								
C03.01	SX_OB_20220323_12_17_SS_Pr	<10	95	<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	<0.5	<0.5	
C03.01	SX_OB_20220323_12_17_SS_Pr																								
C03.01	SX_OB_20220323_12_23_SS_Pr	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_12_23_SS_Pr																								
C03.01	SX_OB_20220323_12_23_SS_Pr																								
C03.01	SX_OB_20220323_16_01_SS_Pr	<10	110			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_01_SS_Pr																								
C03.01	SX_OB_20220323_16_01_SS_Pr																								
C03.01	SX_OB_20220323_16_02_SS_Du	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du																								
C03.01	SX_OB_20220323_16_02_SS_Du																								
C03.01	SX_OB_20220323_16_04_SS_Tr	<10	95	<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	<0.5	<0.5	
C03.01	SX_OB_20220323_16_04_SS_Tr																								
C03.01	SX_OB_20220323_16_11_SS_Pr	<10	88	<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	<0.5	<0.5	
C03.01	SX_OB_20220323_16_11_SS_Pr																								
C03.01	SX_OB_20220323_19_59_SS_Pr	<10	67			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_19_59_SS_Pr																								
C03.01	SX_OB_20220323_19_59_SS_Pr																								
C03.01	SX_OB_20220323_20_07_SS_Pr	<10	88	<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	<0.5	<0.5	
C03.01	SX_OB_20220323_20_07_SS_Pr																								
C03.01	SX_OB_20220323_23_59_SS_Pr	<10	67			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_23_59_SS_Pr																								
C03.01	SX_OB_20220323_23_59_SS_Pr																								
C03.01	SX_OB_20220324_00_04_SS_Pr	<10	91	<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	<0.5	<0.5	
C03.01	SX_OB_20220324_00_04_SS_Pr																								
C03.01	SX_OB_20220324_03_56_SS_Pr	<10	100			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_03_56_SS_Pr																								
C03.01	SX_OB_20220324_03_56_SS_Pr																								
C03.01	SX_OB_20220324_04_00_SS_Pr	<10	91	<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	<0.5	<0.5	
C03.01	SX_OB_20220324_04_00_SS_Pr																								
C03.01	SX_OB_20220324_08_07_SS_Pr	<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	<0.5	<0.5	
C03.01	SX_OB_20220324_08_07_SS_Pr																								
C03.01	SX_OB_20220324_08_11_SS_Du	<10	90	<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	<0.5	<0.5	
C03.01	SX_OB_20220324_08_11_SS_Du																								
C03.01	SX_OB_20220324_08_13_SS_Tr	<10	130			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_13_SS_Tr																								
C03.01	SX_OB_20220324_08_13_SS_Tr																								
C03.01	SX_OB_20220324_08_18_SS_Pr	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_18_SS_Pr																								
C03.01	SX_OB_20220324_08_18_SS_Pr																								
C03.01	SX_OB_20220324_12_18_SS_Pr	<10	110	<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	<0.5	<0.5	
C03.01	SX_OB_20220324_12_18_SS_Pr																								
C03.01	SX_OB_20220324_12_27_SS_Pr	<10	130			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_12_27_SS_Pr																								
C03.01	SX_OB_20220324_12_27_SS_Pr																								

		BTEX						TRH							TPH												
		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	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.1	0.1	0.1	0.1	0.2	0.3	20	20	50	50	100	100	50	20	20	50	50	50	0.05	0.05	0.05	0.05	0.05	0.05
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																										
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																										
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																										
EPA PFAS Classification - Tunnel Zone - No option for c																										
EPA Victoria IWRG621 Category B Leached Upper Limi																										
EPA Victoria IWRG621 Category B Upper Limits		16													2,600				40,000			4.8				
EPA Victoria IWRG621 Category C Leached Upper Limi																										
EPA Victoria IWRG621 Category C Upper Limts		4													650				10,000			1.2				
EPA Victoria IWRG621 Fill Upper Limits		1													100				1,000							
Location Code	**Field ID**																									
C03.01	SX_OB_20220323_08_12_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_08_12_SS_Pr																									
C03.01	SX_OB_20220323_08_12_SS_Pr																									
C03.01	SX_OB_20220323_08_17_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_08_17_SS_Pr																									
C03.01	SX_OB_20220323_08_19_SS_Du	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_08_19_SS_Du																									
C03.01	SX_OB_20220323_08_21_SS_Tr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr																									
C03.01	SX_OB_20220323_08_21_SS_Tr																									
C03.01	SX_OB_20220323_12_17_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_12_17_SS_Pr																									
C03.01	SX_OB_20220323_12_23_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_12_23_SS_Pr																									
C03.01	SX_OB_20220323_12_23_SS_Pr																									
C03.01	SX_OB_20220323_16_01_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_16_01_SS_Pr																									
C03.01	SX_OB_20220323_16_01_SS_Pr																									
C03.01	SX_OB_20220323_16_02_SS_Du	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_16_02_SS_Du																									
C03.01	SX_OB_20220323_16_02_SS_Du																									
C03.01	SX_OB_20220323_16_04_SS_Tr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_16_04_SS_Tr																									
C03.01	SX_OB_20220323_16_11_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_16_11_SS_Pr																									
C03.01	SX_OB_20220323_19_59_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_19_59_SS_Pr																									
C03.01	SX_OB_20220323_19_59_SS_Pr																									
C03.01	SX_OB_20220323_20_07_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_20_07_SS_Pr																									
C03.01	SX_OB_20220323_23_59_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_23_59_SS_Pr																									
C03.01	SX_OB_20220323_23_59_SS_Pr																									
C03.01	SX_OB_20220324_00_04_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_00_04_SS_Pr																									
C03.01	SX_OB_20220324_03_56_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_03_56_SS_Pr																									
C03.01	SX_OB_20220324_03_56_SS_Pr																									
C03.01	SX_OB_20220324_04_00_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_04_00_SS_Pr																									
C03.01	SX_OB_20220324_08_07_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_08_07_SS_Pr																									
C03.01	SX_OB_20220324_08_11_SS_Du	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_08_11_SS_Du																									
C03.01	SX_OB_20220324_08_13_SS_Tr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr																									
C03.01	SX_OB_20220324_08_13_SS_Tr																									
C03.01	SX_OB_20220324_08_18_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_08_18_SS_Pr																									
C03.01	SX_OB_20220324_08_18_SS_Pr																									
C03.01	SX_OB_20220324_12_18_SS_Pr	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05	<0.30	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_12_18_SS_Pr																									
C03.01	SX_OB_20220324_12_27_SS_Pr	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220324_12_27_SS_Pr																									
C03.01	SX_OB_20220324_12_27_SS_Pr																									

		Organochlorine Pesticides																							
		DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.1	0.03	0.5	0.5	1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																									
EPA PFAS Classification - Tunnel Zone - No option for c																									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits		50							16				4.8									50			
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts		50							4				1.2									10			
EPA Victoria IWRG621 Fill Upper Limits																					1				
Location Code	**Field ID**																								
C03.01	SX_OB_20220323_08_12_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_08_12_SS_Pr																								
C03.01	SX_OB_20220323_08_12_SS_Pr																								
C03.01	SX_OB_20220323_08_17_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220323_08_17_SS_Pr																								
C03.01	SX_OB_20220323_08_19_SS_Du	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220323_08_19_SS_Du																								
C03.01	SX_OB_20220323_08_21_SS_Tr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_08_21_SS_Tr																								
C03.01	SX_OB_20220323_08_21_SS_Tr																								
C03.01	SX_OB_20220323_12_17_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220323_12_17_SS_Pr																								
C03.01	SX_OB_20220323_12_23_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_12_23_SS_Pr																								
C03.01	SX_OB_20220323_12_23_SS_Pr																								
C03.01	SX_OB_20220323_16_01_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_16_01_SS_Pr																								
C03.01	SX_OB_20220323_16_01_SS_Pr																								
C03.01	SX_OB_20220323_16_02_SS_Du	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_16_02_SS_Du																								
C03.01	SX_OB_20220323_16_02_SS_Du																								
C03.01	SX_OB_20220323_16_04_SS_Tr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220323_16_04_SS_Tr																								
C03.01	SX_OB_20220323_16_11_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220323_16_11_SS_Pr																								
C03.01	SX_OB_20220323_19_59_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_19_59_SS_Pr																								
C03.01	SX_OB_20220323_19_59_SS_Pr																								
C03.01	SX_OB_20220323_20_07_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220323_20_07_SS_Pr																								
C03.01	SX_OB_20220323_23_59_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220323_23_59_SS_Pr																								
C03.01	SX_OB_20220323_23_59_SS_Pr																								
C03.01	SX_OB_20220324_00_04_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220324_00_04_SS_Pr																								
C03.01	SX_OB_20220324_03_56_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220324_03_56_SS_Pr																								
C03.01	SX_OB_20220324_03_56_SS_Pr																								
C03.01	SX_OB_20220324_04_00_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220324_04_00_SS_Pr																								
C03.01	SX_OB_20220324_08_07_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220324_08_07_SS_Pr																								
C03.01	SX_OB_20220324_08_11_SS_Du	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220324_08_11_SS_Du																								
C03.01	SX_OB_20220324_08_13_SS_Tr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220324_08_13_SS_Tr																								
C03.01	SX_OB_20220324_08_13_SS_Tr																								
C03.01	SX_OB_20220324_08_18_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220324_08_18_SS_Pr																								
C03.01	SX_OB_20220324_08_18_SS_Pr																								
C03.01	SX_OB_20220324_12_18_SS_Pr	<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	<0.05		<0.10	<0.03	<0.50	<0.50	<1.00
C03.01	SX_OB_20220324_12_18_SS_Pr																								
C03.01	SX_OB_20220324_12_27_SS_Pr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1
C03.01	SX_OB_20220324_12_27_SS_Pr																								
C03.01	SX_OB_20220324_12_27_SS_Pr																								

		Phenols																							
		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) EPAVic	Phenols (non-halogenated) EPAVic	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg
EQL		1	0.5	1	1	0.05	5	10	0.03	0.5	20	1	20	0.5	0.2	1	5	0.4	5	20	0.5	1	20	0.00001	0.005
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																									
EPA PFAS Classification - Tunnel Zone - No option for c																									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits												320	2,200												
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts												10	560												
EPA Victoria IWRG621 Fill Upper Limits												1	60												
Location Code	**Field ID**																								
C03.01	SX_OB_20220323_08_12_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_08_12_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_08_12_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_08_17_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220323_08_17_SS_Pr																							<0.00005	
C03.01	SX_OB_20220323_08_19_SS_Du	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220323_08_19_SS_Du																							<0.00005	
C03.01	SX_OB_20220323_08_21_SS_Tr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_08_21_SS_Tr																							<0.00001	
C03.01	SX_OB_20220323_08_21_SS_Tr																							<0.00001	
C03.01	SX_OB_20220323_12_17_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220323_12_17_SS_Pr																							<0.00005	
C03.01	SX_OB_20220323_12_23_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_12_23_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_12_23_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_16_01_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_16_01_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_16_01_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_16_02_SS_Du	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_16_02_SS_Du																							<0.00001	
C03.01	SX_OB_20220323_16_02_SS_Du																							<0.00001	
C03.01	SX_OB_20220323_16_04_SS_Tr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220323_16_04_SS_Tr																							<0.00005	
C03.01	SX_OB_20220323_16_11_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220323_16_11_SS_Pr																							<0.00005	
C03.01	SX_OB_20220323_19_59_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_19_59_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_19_59_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_20_07_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220323_20_07_SS_Pr																							<0.00005	
C03.01	SX_OB_20220323_23_59_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220323_23_59_SS_Pr																							<0.00001	
C03.01	SX_OB_20220323_23_59_SS_Pr																							<0.00001	
C03.01	SX_OB_20220324_00_04_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220324_00_04_SS_Pr																							<0.00005	
C03.01	SX_OB_20220324_03_56_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220324_03_56_SS_Pr																							<0.00001	
C03.01	SX_OB_20220324_03_56_SS_Pr																							<0.00001	
C03.01	SX_OB_20220324_04_00_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220324_04_00_SS_Pr																							<0.00005	
C03.01	SX_OB_20220324_08_07_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220324_08_07_SS_Pr																							<0.00005	
C03.01	SX_OB_20220324_08_11_SS_Du	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220324_08_11_SS_Du																							<0.00005	
C03.01	SX_OB_20220324_08_13_SS_Tr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220324_08_13_SS_Tr																							<0.00001	
C03.01	SX_OB_20220324_08_13_SS_Tr																							<0.00001	
C03.01	SX_OB_20220324_08_18_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220324_08_18_SS_Pr																							<0.00001	
C03.01	SX_OB_20220324_08_18_SS_Pr																							<0.00001	
C03.01	SX_OB_20220324_12_18_SS_Pr	<1.00	<0.50	<1.00	<1.0	<0.05	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5	<1	<5	<20	<1			<0.00005	<0.0050
C03.01	SX_OB_20220324_12_18_SS_Pr																							<0.00005	
C03.01	SX_OB_20220324_12_27_SS_Pr	<1	<0.5	<1	<1		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		<0.005
C03.01	SX_OB_20220324_12_27_SS_Pr																							<0.00001	
C03.01	SX_OB_20220324_12_27_SS_Pr																							<0.00001	

		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-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)	
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	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	0.00005	0.01	0.00001	0.005	0.00005	0.005	0.00005	0.01	0.00005	0.005	0.00005	0.005	0.00005	0.01	0.00005	0.005	0.00005	0.005	0.00001	0.005	0.00001	0.005
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																									
EPA PFAS Classification - Tunnel Zone - No option for c																									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits																									
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts																									
EPA Victoria IWRG621 Fill Upper Limits																									
Location Code	**Field ID**																								
C03.01	**SX_OB_20220323_08_12_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_08_12_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_08_12_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_08_17_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220323_08_17_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220323_08_19_SS_Du**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220323_08_19_SS_Du**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220323_08_21_SS_Tr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_08_21_SS_Tr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_08_21_SS_Tr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_12_17_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220323_12_17_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220323_12_23_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_12_23_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_12_23_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_01_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_16_01_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_01_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_02_SS_Du**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_16_02_SS_Du**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_02_SS_Du**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_04_SS_Tr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220323_16_04_SS_Tr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220323_16_11_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220323_16_11_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220323_19_59_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_19_59_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_19_59_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_20_07_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220323_20_07_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220323_23_59_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_23_59_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_23_59_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_00_04_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220324_00_04_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220324_03_56_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_03_56_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_03_56_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_04_00_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220324_04_00_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220324_08_07_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220324_08_07_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220324_08_11_SS_Du**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220324_08_11_SS_Du**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220324_08_13_SS_Tr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_08_13_SS_Tr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_08_13_SS_Tr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_08_18_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_08_18_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_08_18_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_12_18_SS_Pr**	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	**SX_OB_20220324_12_18_SS_Pr**	<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002	
C03.01	**SX_OB_20220324_12_27_SS_Pr**		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_12_27_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_12_27_SS_Pr**	<0.00001		<0.00005		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001	

		PFOS/PFOA																							
		Perfluorododecanoic acid (PFDoDA)		Perfluorodecanesulfonic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane sulfonic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic acid (PFPrS)	
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	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	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00005	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																0									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																0.00056									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																0.0056									
EPA PFAS Classification - Tunnel Zone - No option for c																0.056									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits																									
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts																									
EPA Victoria IWRG621 Fill Upper Limits																									
Location Code	**Field ID**																								
C03.01	**SX_OB_20220323_08_12_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_08_12_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_08_12_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_08_17_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220323_08_17_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220323_08_19_SS_Du**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220323_08_19_SS_Du**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220323_08_21_SS_Tr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_08_21_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_08_21_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_12_17_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220323_12_17_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220323_12_23_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_12_23_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_12_23_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_01_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_16_01_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_01_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_02_SS_Du**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_16_02_SS_Du**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_02_SS_Du**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_16_04_SS_Tr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220323_16_04_SS_Tr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220323_16_11_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220323_16_11_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220323_19_59_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_19_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_19_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_20_07_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220323_20_07_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220323_23_59_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220323_23_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220323_23_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_00_04_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220324_00_04_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220324_03_56_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_03_56_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_03_56_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_04_00_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220324_04_00_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220324_08_07_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220324_08_07_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220324_08_11_SS_Du**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220324_08_11_SS_Du**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220324_08_13_SS_Tr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_08_13_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_08_13_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_08_18_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_08_18_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_08_18_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_12_18_SS_Pr**	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050		
C03.01	**SX_OB_20220324_12_18_SS_Pr**	<0.00002		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002				<0.00001		<0.00005		<0.00002		<0.00002			
C03.01	**SX_OB_20220324_12_27_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	**SX_OB_20220324_12_27_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
C03.01	**SX_OB_20220324_12_27_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	

		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*		Sum of PFAS	Sum of PFAS	1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane
		mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	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
EQL		0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005	0.0001	0.05	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9												0													
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9												0.00007													
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9												0.0007													
EPA PFAS Classification - Tunnel Zone - No option for c												0.007													
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits																									
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts																									
EPA Victoria IWRG621 Fill Upper Limits																									
Location Code	**Field ID**																								
C03.01	**SX_OB_20220323_08_12_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_08_12_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_08_12_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_08_17_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220323_08_17_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220323_08_19_SS_Du**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220323_08_19_SS_Du**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220323_08_21_SS_Tr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_08_21_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_08_21_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_12_17_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220323_12_17_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220323_12_23_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_12_23_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_12_23_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_16_01_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_16_01_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_16_01_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_16_02_SS_Du**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_16_02_SS_Du**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_16_02_SS_Du**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_16_04_SS_Tr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220323_16_04_SS_Tr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220323_16_11_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220323_16_11_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220323_19_59_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_19_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_19_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_20_07_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220323_20_07_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220323_23_59_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220323_23_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220323_23_59_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_00_04_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220324_00_04_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220324_03_56_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220324_03_56_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_03_56_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_04_00_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220324_04_00_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220324_08_07_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220324_08_07_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220324_08_11_SS_Du**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220324_08_11_SS_Du**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220324_08_13_SS_Tr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220324_08_13_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_08_13_SS_Tr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_08_18_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220324_08_18_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_08_18_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_12_18_SS_Pr**	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050					<0.00010	<0.0500		<0.50		<0.50		
C03.01	**SX_OB_20220324_12_18_SS_Pr**	<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		<0.00001						<0.00010							
C03.01	**SX_OB_20220324_12_27_SS_Pr**		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	**SX_OB_20220324_12_27_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							
C03.01	**SX_OB_20220324_12_27_SS_Pr**	<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		<0.0001							

		Chlorinated Hydrocarbons																						
		Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	cis-1,2-dichloroethene	1,1,2-trichloroethane	trans-1,3-dichloropropene	Vinyl chloride	Bromoform	Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																									
EPA PFAS Classification - Tunnel Zone - No option for c																									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits												11	50						4.8						
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts												2.8	10						1.2						
EPA Victoria IWRG621 Fill Upper Limits															1										
Location Code	**Field ID**																								
C03.01	SX_OB_20220323_08_12_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_12_SS_Pr																								
C03.01	SX_OB_20220323_08_12_SS_Pr																								
C03.01	SX_OB_20220323_08_17_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220323_08_17_SS_Pr																								
C03.01	SX_OB_20220323_08_19_SS_Du		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220323_08_19_SS_Du																								
C03.01	SX_OB_20220323_08_21_SS_Tr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_21_SS_Tr																								
C03.01	SX_OB_20220323_08_21_SS_Tr																								
C03.01	SX_OB_20220323_12_17_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220323_12_17_SS_Pr																								
C03.01	SX_OB_20220323_12_23_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_12_23_SS_Pr																								
C03.01	SX_OB_20220323_12_23_SS_Pr																								
C03.01	SX_OB_20220323_16_01_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_01_SS_Pr																								
C03.01	SX_OB_20220323_16_01_SS_Pr																								
C03.01	SX_OB_20220323_16_02_SS_Du	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du																								
C03.01	SX_OB_20220323_16_02_SS_Du																								
C03.01	SX_OB_20220323_16_04_SS_Tr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220323_16_04_SS_Tr																								
C03.01	SX_OB_20220323_16_11_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220323_16_11_SS_Pr																								
C03.01	SX_OB_20220323_19_59_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_19_59_SS_Pr																								
C03.01	SX_OB_20220323_19_59_SS_Pr																								
C03.01	SX_OB_20220323_20_07_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220323_20_07_SS_Pr																								
C03.01	SX_OB_20220323_23_59_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_23_59_SS_Pr																								
C03.01	SX_OB_20220323_23_59_SS_Pr																								
C03.01	SX_OB_20220324_00_04_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220324_00_04_SS_Pr																								
C03.01	SX_OB_20220324_03_56_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_03_56_SS_Pr																								
C03.01	SX_OB_20220324_03_56_SS_Pr																								
C03.01	SX_OB_20220324_04_00_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220324_04_00_SS_Pr																								
C03.01	SX_OB_20220324_08_07_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220324_08_07_SS_Pr																								
C03.01	SX_OB_20220324_08_11_SS_Du		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220324_08_11_SS_Du																								
C03.01	SX_OB_20220324_08_13_SS_Tr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_13_SS_Tr																								
C03.01	SX_OB_20220324_08_13_SS_Tr																								
C03.01	SX_OB_20220324_08_18_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_18_SS_Pr																								
C03.01	SX_OB_20220324_08_18_SS_Pr																								
C03.01	SX_OB_20220324_12_18_SS_Pr		<0.50		<0.50	<0.50	<0.50				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50		<0.50			<0.50	<0.50
C03.01	SX_OB_20220324_12_18_SS_Pr																								
C03.01	SX_OB_20220324_12_27_SS_Pr	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_12_27_SS_Pr																								
C03.01	SX_OB_20220324_12_27_SS_Pr																								

		NA			PCBs								Inorganics								Halogenated Benzenes				
		Sum of WA DWER PFAS (n=10)*		Moisture Content	Arochlor 1232	Arochlor 1242	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
		UG/KG	µg/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	mg/kg
EQL		0.05		1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100	1	5	0.5	0.5	0.5	0.5	0.5
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																									
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																									
EPA PFAS Classification - Tunnel Zone - No option for c																									
EPA Victoria IWRG621 Category B Leached Upper Limi																									
EPA Victoria IWRG621 Category B Upper Limits																		40,000		10,000					
EPA Victoria IWRG621 Category C Leached Upper Limi																									
EPA Victoria IWRG621 Category C Upper Limts																		10,000		2,500					
EPA Victoria IWRG621 Fill Upper Limits												2						450		50					
Location Code	**Field ID**																								
C03.01	SX_OB_20220323_08_12_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.7	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_12_SS_Pr	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_08_12_SS_Pr	<0.05												8.7		6.1									
C03.01	SX_OB_20220323_08_17_SS_Pr	<10.0	<0.05	27.2								<0.1	1.5	5.0	8.8	5.0		290		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_08_17_SS_Pr		<0.05											9.5											
C03.01	SX_OB_20220323_08_19_SS_Du	<10.0	<0.05	28.0								<0.1	1.5	4.9	9.0	5.0		190		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_08_19_SS_Du		<0.05											9.5											
C03.01	SX_OB_20220323_08_21_SS_Tr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.6	<100	26	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_21_SS_Tr	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_08_21_SS_Tr	<0.05												8.9		6.1									
C03.01	SX_OB_20220323_12_17_SS_Pr	<10.0	<0.05	30.3								<0.1	1.5	5.0	9.3	5.0		240		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_12_17_SS_Pr		<0.05											9.5											
C03.01	SX_OB_20220323_12_23_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.7	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_12_23_SS_Pr	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_12_23_SS_Pr	<0.05												9.0		6.1									
C03.01	SX_OB_20220323_16_01_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100	25	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_01_SS_Pr	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_16_01_SS_Pr	<0.05												9.0		6.1									
C03.01	SX_OB_20220323_16_02_SS_Du	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.4	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_16_02_SS_Du	<0.05												9.0		6.1									
C03.01	SX_OB_20220323_16_04_SS_Tr	<10.0	<0.05	28.6								<0.1	1.6	5.0	9.1	5.0		190		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_16_04_SS_Tr		<0.05											9.5											
C03.01	SX_OB_20220323_16_11_SS_Pr	<10.0	<0.05	28.1								<0.1	1.4	5.0	9.0	5.0		210		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_16_11_SS_Pr		<0.05											9.5											
C03.01	SX_OB_20220323_19_59_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.9	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_19_59_SS_Pr	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_19_59_SS_Pr	<0.05												9.2		6.1									
C03.01	SX_OB_20220323_20_07_SS_Pr	<10.0	<0.05	27.5								<0.1	1.5	5.0	8.9	5.0		170		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_20_07_SS_Pr		<0.05											9.6											
C03.01	SX_OB_20220323_23_59_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.7	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_23_59_SS_Pr	<0.05												5.1		5.0									
C03.01	SX_OB_20220323_23_59_SS_Pr	<0.05												9.1		6.1									
C03.01	SX_OB_20220324_00_04_SS_Pr	<10.0	<0.05	29.8								<0.1	1.5	5.0	8.9	5.0		440		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_00_04_SS_Pr		<0.05											9.4											
C03.01	SX_OB_20220324_03_56_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.9	<100	29	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_03_56_SS_Pr	<0.05												5.2		5.0									
C03.01	SX_OB_20220324_03_56_SS_Pr	<0.05												9.2		6.1									
C03.01	SX_OB_20220324_04_00_SS_Pr	<10.0	<0.05	30.5								<0.1	1.5	5.0	9.1	5.0		170		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_04_00_SS_Pr		<0.05											9.4											
C03.01	SX_OB_20220324_08_07_SS_Pr	<10.0	<0.05	25.8								<0.1	1.4	5.1	9.2	5.0		880		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_08_07_SS_Pr		<0.05											9.7											
C03.01	SX_OB_20220324_08_11_SS_Du	<10.0	<0.05	28.0								<0.1	1.4	5.1	9.3	5.0		550		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_08_11_SS_Du		<0.05											10.1											
C03.01	SX_OB_20220324_08_13_SS_Tr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					9.1	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_13_SS_Tr	<0.05												5.2		5.0									
C03.01	SX_OB_20220324_08_13_SS_Tr	<0.05												9.3		6.9									
C03.01	SX_OB_20220324_08_18_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.3	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_18_SS_Pr	<0.05												5.2		5.0									
C03.01	SX_OB_20220324_08_18_SS_Pr	<0.05												9.0		6.9									
C03.01	SX_OB_20220324_12_18_SS_Pr	<10.0	<0.05	28.1								<0.1	1.3	5.1	9.0	5.0		420		<5	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_12_18_SS_Pr		<0.05											9.7											
C03.01	SX_OB_20220324_12_27_SS_Pr	<10			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					8.7	<100	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_12_27_SS_Pr	<0.05												5.1		5.0									
C03.01	SX_OB_20220324_12_27_SS_Pr	<0.05												9.0		6.9									

				Halogenated Hydrocarbons					MAH						Solvents					SPOCAS
		4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocylic aromatic hydrocarbons EPAVic	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	mg/kg	mg/kg	mg/kg	-
EQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1
EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9																				
EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9																				
EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9																				
EPA PFAS Classification - Tunnel Zone - No option for c																				
EPA Victoria IWRG621 Category B Leached Upper Limi																				
EPA Victoria IWRG621 Category B Upper Limits										240										
EPA Victoria IWRG621 Category C Leached Upper Limi																				
EPA Victoria IWRG621 Category C Upper Limts										70										
EPA Victoria IWRG621 Fill Upper Limits										7										
Location Code	**Field ID**																			
C03.01	SX_OB_20220323_08_12_SS_Pr	<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	
C03.01	SX_OB_20220323_08_12_SS_Pr																			
C03.01	SX_OB_20220323_08_12_SS_Pr																			
C03.01	SX_OB_20220323_08_17_SS_Pr		<0.50							<0.5		<0.5								7.6
C03.01	SX_OB_20220323_08_17_SS_Pr																			
C03.01	SX_OB_20220323_08_19_SS_Du		<0.50							<0.5		<0.5								7.6
C03.01	SX_OB_20220323_08_19_SS_Du																			
C03.01	SX_OB_20220323_08_21_SS_Tr	<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	
C03.01	SX_OB_20220323_08_21_SS_Tr																			
C03.01	SX_OB_20220323_08_21_SS_Tr																			
C03.01	SX_OB_20220323_12_17_SS_Pr		<0.50							<0.5		<0.5								7.6
C03.01	SX_OB_20220323_12_17_SS_Pr																			
C03.01	SX_OB_20220323_12_23_SS_Pr	<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	
C03.01	SX_OB_20220323_12_23_SS_Pr																			
C03.01	SX_OB_20220323_12_23_SS_Pr																			
C03.01	SX_OB_20220323_16_01_SS_Pr	<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	
C03.01	SX_OB_20220323_16_01_SS_Pr																			
C03.01	SX_OB_20220323_16_01_SS_Pr																			
C03.01	SX_OB_20220323_16_02_SS_Du	<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	
C03.01	SX_OB_20220323_16_02_SS_Du																			
C03.01	SX_OB_20220323_16_02_SS_Du																			
C03.01	SX_OB_20220323_16_04_SS_Tr		<0.50							<0.5		<0.5								7.7
C03.01	SX_OB_20220323_16_04_SS_Tr																			
C03.01	SX_OB_20220323_16_11_SS_Pr		<0.50							<0.5		<0.5								7.7
C03.01	SX_OB_20220323_16_11_SS_Pr																			
C03.01	SX_OB_20220323_19_59_SS_Pr	<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	
C03.01	SX_OB_20220323_19_59_SS_Pr																			
C03.01	SX_OB_20220323_19_59_SS_Pr																			
C03.01	SX_OB_20220323_20_07_SS_Pr		<0.50							<0.5		<0.5								7.7
C03.01	SX_OB_20220323_20_07_SS_Pr																			
C03.01	SX_OB_20220323_23_59_SS_Pr	<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	
C03.01	SX_OB_20220323_23_59_SS_Pr																			
C03.01	SX_OB_20220323_23_59_SS_Pr																			
C03.01	SX_OB_20220324_00_04_SS_Pr		<0.50							<0.5		<0.5								7.8
C03.01	SX_OB_20220324_00_04_SS_Pr																			
C03.01	SX_OB_20220324_03_56_SS_Pr	<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	
C03.01	SX_OB_20220324_03_56_SS_Pr																			
C03.01	SX_OB_20220324_03_56_SS_Pr																			
C03.01	SX_OB_20220324_04_00_SS_Pr		<0.50							<0.5		<0.5								7.6
C03.01	SX_OB_20220324_04_00_SS_Pr																			
C03.01	SX_OB_20220324_08_07_SS_Pr		<0.50							<0.5		<0.5								8.0
C03.01	SX_OB_20220324_08_07_SS_Pr																			
C03.01	SX_OB_20220324_08_11_SS_Du		<0.50							<0.5		<0.5								8.2
C03.01	SX_OB_20220324_08_11_SS_Du																			
C03.01	SX_OB_20220324_08_13_SS_Tr	<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	
C03.01	SX_OB_20220324_08_13_SS_Tr																			
C03.01	SX_OB_20220324_08_13_SS_Tr																			
C03.01	SX_OB_20220324_08_18_SS_Pr	<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	
C03.01	SX_OB_20220324_08_18_SS_Pr																			
C03.01	SX_OB_20220324_08_18_SS_Pr																			
C03.01	SX_OB_20220324_12_18_SS_Pr		<0.50							<0.5		<0.5								7.7
C03.01	SX_OB_20220324_12_18_SS_Pr																			
C03.01	SX_OB_20220324_12_27_SS_Pr	<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	
C03.01	SX_OB_20220324_12_27_SS_Pr																			
C03.01	SX_OB_20220324_12_27_SS_Pr																			

									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												
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			30	<0.4	60	120	<1	<5	<0.1	<5	200	<2	<2
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301		31	<0.4	61	140	<1	<5	<0.1	<5	220	<2	<2
RPD									3	0	2	15	0	0	0	0	10	0	0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			30	<0.4	60	120	<1	<5	<0.1	<5	200	<2	<2
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317		32	<1	56	111	<1.0	<5	<0.1	<5	177	<5	<2
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			20	<1	49	103	1.4	<5	<0.1	<5	178	<5	<2
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001		22	<1	53	104	<1.0	<5	<0.1	<5	162	<5	<2
RPD									10	0	8	1	33	0	0	0	9	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			20	<1	49	103	1.4	<5	<0.1	<5	178	<5	<2
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		17	<0.4	43	62	<1	<5	<0.1	<5	120	<2	<2
RPD									16	0	13	50	33	0	0	0	**39**	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			20	<1	49	103	1.4	<5	<0.1	<5	178	<5	<2
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001												
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009												
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			31	<0.4	70	140	1.0	5.1	<0.1	<5	250	<2	<2
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712		29	<0.4	61	130	<1	<5	<0.1	<5	210	<2	<2
RPD									7	0	14	7	0	2	0	0	17	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			31	<0.4	70	140	1.0	5.1	<0.1	<5	250	<2	<2
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712		19	<1	52	102	1.6	<5	<0.1	<5	164	<5	<2
RPD									48	0	30	31	46	2	0	0	**42**	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			24	<1	54	96	1.4	<5	<0.1	<5	163	<5	<2
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001		27	<1	57	102	<1.0	<5	<0.1	<5	169	<5	<2
RPD									12	0	5	6	33	0	0	0	4	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			24	<1	54	96	1.4	<5	<0.1	<5	163	<5	<2
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		36	<0.4	65	130	<1	<5	<0.1	<5	210	<2	<2
RPD									40	0	18	30	33	0	0	0	25	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			24	<1	54	96	1.4	<5	<0.1	<5	163	<5	<2
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011												
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

								Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+j+k)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL								10	5	0.5	1	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**											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<10	110			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<10	160			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	**37**			0	0	0	0	0	0	0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<10	110			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<10	95	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<10	82	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<10	85	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	4	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<10	82	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<10	69			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	17			0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<10	82	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	0			0	0	0	0	0	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<10	120			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<10	78	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	42			0	0	0	0	0	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<10	86	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<10	90	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	5	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<10	86	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<10	130			<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD								0	41			0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<10	86	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene
								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											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.5		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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											
								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
EQL								0.5	0.5	0.1	0.1	0.1	0.1	0.2	0.3	20	20	50
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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

								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
EQL								50	100	100	50	20	20	50	50	50	0.05	0.05
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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

									Organ											
									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
EQL									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												
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301		<0.05	<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001		<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.05	<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
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001												
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009												
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712		<0.05	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712		<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001		<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.05	<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
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011												
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

								nochlorine Pesticides															
								chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC	g-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**																
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.1			<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				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301																
RPD																							
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal																	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309																
RPD																							
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal																	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317																
RPD																							
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal																	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
RPD																							
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.10	<0.03	<0.03	<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				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.1			<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				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001																
RPD																							
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal																	
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009																
RPD																							
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal																	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009																
RPD																							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.1			<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				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.10	<0.03	<0.03	<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				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal																	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720																
RPD																							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal																	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728																
RPD																							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal																	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728																
RPD																							
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.10	<0.03	<0.03	<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				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.1			<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				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001																
RPD																							
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal																	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011																
RPD																							
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal																	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011																
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

								Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	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
EQL								0.5	0.1	0.03	0.5	0.5	1	1	0.5	1	1	0.05
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
RPD									0	0	0	0	0	0	0	0	0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
RPD									0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	
RPD									0	0	0	0	0	0	0	0	0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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-cyclohexyl phenol	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											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
RPD								0	0		0	0			0	0	0	0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD								0		0		0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
RPD								0				0			0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
RPD								0	0		0	0			0	0	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD								0				0			0	0	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
RPD								0		0		0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5
RPD								0				0			0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<5		<0.03		<20	<1.00	<20	<1	<1	<1	<5
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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	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
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL								0.4	5	20	0.5	1	20	0.00001	0.005	0.00001	0.005	0.00005
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD								0	0	0	0	0	0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301							<0.00005		<0.00005		<0.00005
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal								<0.00001		<0.00001		<0.00005
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal								<0.00001		<0.00001		<0.00005
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal								<0.00001		<0.00001		<0.00005
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD														0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0			0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD								0	0	0	0				0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal								<0.00005		<0.00005		<0.00005
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009							<0.00005		<0.00005		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal								<0.00005		<0.00005		<0.00005
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD								0	0	0	0	0	0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0				0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal								<0.00001		<0.00001		<0.00005
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal								<0.00001		<0.00001		<0.00005
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal								<0.00001		<0.00001		<0.00005
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728							<0.00005		<0.00005		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0			0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005	
RPD								0	0	0	0				0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001							<0.00001		<0.00001		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal								<0.00005		<0.00005		<0.00005
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011							<0.00005		<0.00005		<0.00005
RPD														0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal								<0.00005		<0.00005		<0.00005
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011							<0.00001		<0.00001		<0.00005
RPD														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)		4:2 Fluorotelomer sulfonic acid (4:2 FTS)		N-Ethyl perfluorooctane sulfonamide (NEtFOSA)		N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)	
								mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
EQL								0.01	0.00001	0.005	0.00005	0.005	0.00005	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**																
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
RPD								0	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011		<0.00001		<0.00005		<0.00005		<0.00005		<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

								N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)		N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)		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
EQL								0.00005	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											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301		<0.01		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301	<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD								0	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.01		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009	<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712		<0.01		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728	<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
RPD								0	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.01		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00005	<0.0100	<0.00005	<0.0050	<0.0001	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011	<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011	<0.00005		<0.00005		<0.00005		<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

								PFOS/PFOA											
								(PFDoDA)		Perfluorodecanesulfonic acid (PFDS)		Perfluoroheptanoic acid (PFHpA)		Perfluoroheptane 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	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	0.005
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD								0	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD								0	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011		<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00002		<0.00002		<0.00002		<0.00002		<0.00002	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
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

								Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		Perfluoropropanesulfonic
								mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
EQL								0.00001	0.005	0.00001	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**											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301			<0.00001		<0.00005		<0.00002		<0.00002		
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
RPD										0		0		0		0		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
RPD										0	0	0	0	0	0	0	0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD											0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD										0		0		0		0		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.00001		<0.00005		<0.00002		<0.00002		
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009			<0.00001		<0.00005		<0.00002		<0.00002		
RPD										0		0		0		0		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.00001		<0.00005		<0.00002		<0.00002		
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD										0		0		0		0		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
RPD											0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728			<0.00001		<0.00005		<0.00002		<0.00002		
RPD										0		0		0		0		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
RPD										0	0	0	0	0	0	0	0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD											0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD										0		0		0		0		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.00001		<0.00005		<0.00002		<0.00002		
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011			<0.00001		<0.00005		<0.00002		<0.00002		
RPD										0		0		0		0		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.00001		<0.00005		<0.00002		<0.00002		
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011	<0.00001		<0.00001		<0.00005		<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

								acid (PFPrS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)	
								mg/kg	mg/L	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	0.00001	0.005
Location Code	**Field ID**	**Date**	**Depth**	**Lab Report Number**	**Lab Name**	**Sample Type**	**Parent Sample**											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD								0		0		0		0		0		0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301		<0.00005		<0.00002		<0.00002		<0.00001		<0.00001	
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD									0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD										0		0		0		0		0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD								0		0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD										0		0		0		0		0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728		<0.00005		<0.00002		<0.00002		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
RPD									0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005
RPD										0		0		0		0		0
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011		<0.00005		<0.00002		<0.00002		<0.00001		<0.00001	
RPD									0		0		0		0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001	
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

								Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + 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/kg	mg/kg	mg/kg
EQL								0.00001	0.005	0.00001	0.005	0.00001	0.005	0.0001	0.05	0.5	0.5	0.5
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
RPD									0		0		0		0	0	0	0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301	<0.00001						<0.00010				
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001				
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0		0		0		0				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001				
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0		0		0		0				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001				
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
RPD								0						0				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
RPD								0	0					0	0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
RPD									0						0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0						0				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00001						<0.00010				
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009	<0.00001						<0.00010				
RPD								0						0				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.00001						<0.00010				
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0						0				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
RPD									0		0		0		0	0	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
RPD									0						0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001				
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0		0		0		0				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001				
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0		0		0		0				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.0001				
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728	<0.00001						<0.00010				
RPD								0						0				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
RPD								0	0					0	0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5
RPD									0						0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00001	<0.0050					<0.00010	<0.0500		<0.50	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0						0				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00001						<0.00010				
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011	<0.00001						<0.00010				
RPD								0						0				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.00001						<0.00010				
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011	<0.00001		<0.00001		<0.00001		<0.0001				
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

								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
Location Code	**Field ID**	**Date**	**Depth**	**Lab Report Number**	**Lab Name**	**Sample Type**	**Parent Sample**											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.50				<0.50		<0.50	<0.50	<0.50		
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.50				<0.50		<0.50	<0.50	<0.50		
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.50				<0.50		<0.50	<0.50	<0.50		
RPD								0				0		0	0	0		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.50				<0.50		<0.50	<0.50	<0.50		
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<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		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.50				<0.50		<0.50	<0.50	<0.50		
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.50				<0.50		<0.50	<0.50	<0.50		
RPD								0				0		0	0	0		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.50				<0.50		<0.50	<0.50	<0.50		
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.50				<0.50		<0.50	<0.50	<0.50		
RPD								0				0		0	0	0		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.50				<0.50		<0.50	<0.50	<0.50		
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<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		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.50				<0.50		<0.50	<0.50	<0.50		
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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 EPAVic	Trichloroethene	Chlorinated hydrocarbons EPAVic	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
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												
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301		<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317												
RPD																			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal													
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
RPD										0	0	0	0	0	0	0		0	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001		<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	
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001												
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009												
RPD																			
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712		<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
RPD										0	0	0	0	0	0	0		0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728												
RPD																			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal													
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
RPD										0	0	0	0	0	0	0		0	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001		<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	
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal				<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011												
RPD																			
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal													
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011												
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)*	
														mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L
EQL														0.5	0.5	0.5	0.5	0.5	0.05	
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample													
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10							
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.5	<0.5	<0.5	<0.5	<0.5	<10							
RPD								0	0	0	0	0	0							
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10							
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301							<0.05						
RPD																				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal							<0.05							
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309						<0.05							
RPD													0							
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal							<0.05							
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317						<0.05							
RPD													0							
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal							<0.05							
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317	<0.50			<0.50	<0.50	<10.0	<0.05	28.6					
RPD													0							
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.05	27.2					
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001	<0.50			<0.50	<0.50	<10.0	<0.05	28.0					
RPD								0			0	0	0	0	3					
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.05	27.2					
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.5	<0.5	<0.5	<0.5	<0.5	<10							
RPD								0			0	0	0							
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.05	27.2					
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001						<0.05							
RPD													0							
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal								<0.05						
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009							<0.05						
RPD														0						
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal								<0.05						
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009						<0.05							
RPD																				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10							
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.5	<0.5	<0.5	<0.5	<0.5	<10							
RPD								0	0	0	0	0	0							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10							
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712	<0.50			<0.50	<0.50	<10.0	<0.05	25.3					
RPD								0			0	0	0							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal							<0.05							
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720						<0.05							
RPD													0							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal							<0.05							
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728						<0.05							
RPD													0							
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal							<0.05							
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728							<0.05						
RPD																				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.05	25.8					
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001	<0.50			<0.50	<0.50	<10.0	<0.05	28.0					
RPD								0			0	0	0	0	8					
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.05	25.8					
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.5	<0.5	<0.5	<0.5	<0.5	<10							
RPD								0			0	0	0							
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal		<0.50			<0.50	<0.50	<10.0	<0.05	25.8					
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001						<0.05							
RPD													0							
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal								<0.05						
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011							<0.05						
RPD														0						
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal								<0.05						
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011						<0.05							
RPD																				

														Moisture Content	Arochlor 1232	Arochlor 1242	Arochlor 1248			
														%	mg/kg	mg/kg	mg/kg			
EQL														1	0.1	0.1	0.1			
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample													
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal									<0.1	<0.1	<0.1			
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301								<0.1	<0.1	<0.1			
RPD															0	0	0			
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal									<0.1	<0.1	<0.1			
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301													
RPD																				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal														
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309													
RPD																				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal														
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317													
RPD																				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal														
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317													
RPD																				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001													
RPD																				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001								<0.1	<0.1	<0.1			
RPD																				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001													
RPD																				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009													
RPD																				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009													
RPD																				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal									<0.1	<0.1	<0.1			
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712								<0.1	<0.1	<0.1			
RPD															0	0	0			
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal									<0.1	<0.1	<0.1			
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712													
RPD																				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal														
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720													
RPD																				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal														
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728													
RPD																				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal														
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728													
RPD																				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001													
RPD																				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001								<0.1	<0.1	<0.1			
RPD															0					
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001													
RPD																				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011													
RPD																				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal														
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011													
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

								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
EQL								0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	100
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.1	<0.1	<0.1	<0.1	<0.1					8.4	<100
RPD								0	0	0	0	0					1	0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					8.5	<100
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301							9.5				
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal								5.1		5.0		
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309							5.1		5.0		
RPD														0		0		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal								9.0		6.1		
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317							9.0		6.1		
RPD														0		0		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal								9.0		6.1		
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317					<0.1	1.6	5.0	9.1	5.0		190
RPD														**57**		20		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal						<0.1	1.5	5.0	8.8	5.0		290
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001					<0.1	1.5	4.9	9.0	5.0		190
RPD												0	0	2	2	0		42
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal						<0.1	1.5	5.0	8.8	5.0		290
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.1	<0.1	<0.1	<0.1	<0.1					8.6	<100
RPD												0						**97**
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal						<0.1	1.5	5.0	8.8	5.0		290
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001							5.1		5.0		
RPD														2		0		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal								9.5				
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009							9.5				
RPD														0				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal								9.5				
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009							8.9		6.1		
RPD														7				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					7.4	<100
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.1	<0.1	<0.1	<0.1	<0.1					7.4	<100
RPD								0	0	0	0	0					0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1					7.4	<100
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712					<0.1	1.4	5.1	9.5	5.0		540
RPD												0						**138**
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal								5.1		5.0		
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720							5.1		5.0		
RPD														0		0		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal								8.9		6.9		
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728							9.1		6.9		
RPD														2		0		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal								8.9		6.9		
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728							9.7				
RPD														9				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal						<0.1	1.4	5.1	9.2	5.0		880
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001					<0.1	1.4	5.1	9.3	5.0		550
RPD												0	0	0	1	0		46
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal						<0.1	1.4	5.1	9.2	5.0		880
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.1	<0.1	<0.1	<0.1	<0.1					9.1	<100
RPD												0						**159**
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal						<0.1	1.4	5.1	9.2	5.0		880
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001							5.2		5.0		
RPD														2		0		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal								9.7				
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011							10.1				
RPD														4				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal								9.7				
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011							9.3		6.9		
RPD														4				

**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							Halog	
												Moisture Content (dried @ 103°C)	Cyanide Total	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane
												%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL												1	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															
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		25	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	27	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD								8	0	0	0	0	0	0	0	0	0	0
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		25	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317		<5	<0.50	<0.50		<0.50			<0.50		
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<5	<0.50	<0.50		<0.50			<0.50		
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001		<5	<0.50	<0.50		<0.50			<0.50		
RPD									0	0	0		0			0		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<5	<0.50	<0.50		<0.50			<0.50		
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	26	<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		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal			<5	<0.50	<0.50		<0.50			<0.50		
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		24	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	25	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD								4	0	0	0	0	0	0	0	0	0	0
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		24	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712		<5	<0.50	<0.50		<0.50			<0.50		
RPD									0	0	0		0			0		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<5	<0.50	<0.50		<0.50			<0.50		
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001		<5	<0.50	<0.50		<0.50			<0.50		
RPD									0	0	0		0			0		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<5	<0.50	<0.50		<0.50			<0.50		
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	28	<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		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal			<5	<0.50	<0.50		<0.50			<0.50		
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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

								enated Hydrocarbons			MAH							
								1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocylic aromatic hydrocarbons EPAVic	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											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<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
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317											
RPD																		
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal												
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317					<0.5		<0.5				
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal						<0.5		<0.5				
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001					<0.5		<0.5				
RPD												0		0				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal						<0.5		<0.5				
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD														0				
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal						<0.5		<0.5				
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009											
RPD																		
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<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
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712					<0.5		<0.5				
RPD														0				
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728											
RPD																		
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal												
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal						<0.5		<0.5				
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001					<0.5		<0.5				
RPD												0		0				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal						<0.5		<0.5				
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD														0				
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal						<0.5		<0.5				
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011											
RPD																		
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal												
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011											
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	-
EQL								0.5	0.5	0.5	0.1
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample				
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50301	<0.5	<0.5	<0.5	
RPD								0	0	0	
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal		<0.5	<0.5	<0.5	
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50301				
RPD											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal					
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50309				
RPD											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal					
C03.01	SX_OB_20220323_16_02_SS_Du	23/03/2022		873973	MGT	Field_D	M22-Ma50317				
RPD											
C03.01	SX_OB_20220323_16_01_SS_Pr	23/03/2022		873973	MGT	Normal					
C03.01	SX_OB_20220323_16_04_SS_Tr	23/03/2022		EM2205177	ALSE-Melbourne	Interlab_D	M22-Ma50317				7.7
RPD											
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal					7.6
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177001				7.6
RPD											0
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal					7.6
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001	<0.5	<0.5	<0.5	
RPD											
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal					7.6
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177001				
RPD											
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal					
C03.01	SX_OB_20220323_08_19_SS_Du	23/03/2022		EM2205177	ALSE-Melbourne	Field_D	EM2205177009				
RPD											
C03.01	SX_OB_20220323_08_17_SS_Pr	23/03/2022		EM2205177	ALSE-Melbourne	Normal					
C03.01	SX_OB_20220323_08_21_SS_Tr	23/03/2022		873973	MGT	Interlab_D	EM2205177009				
RPD											
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53712	<0.5	<0.5	<0.5	
RPD								0	0	0	
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal		<0.5	<0.5	<0.5	
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53712				7.8
RPD											
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal					
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53720				
RPD											
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal					
C04.01	SX_OB_20220324_16_25_SS_Du	24/03/2022		874462	MGT	Field_D	M22-Ma53728				
RPD											
C04.01	SX_OB_20220324_16_24_SS_Pr	24/03/2022		874462	MGT	Normal					
C04.01	SX_OB_20220324_16_27_SS_Tr	24/03/2022		EM2205361	ALSE-Melbourne	Interlab_D	M22-Ma53728				
RPD											
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal					8.0
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361001				8.2
RPD											2
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal					8.0
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001	<0.5	<0.5	<0.5	
RPD											
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal					8.0
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361001				
RPD											
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal					
C03.01	SX_OB_20220324_08_11_SS_Du	24/03/2022		EM2205361	ALSE-Melbourne	Field_D	EM2205361011				
RPD											
C03.01	SX_OB_20220324_08_07_SS_Pr	24/03/2022		EM2205361	ALSE-Melbourne	Normal					
C03.01	SX_OB_20220324_08_13_SS_Tr	24/03/2022		874462	MGT	Interlab_D	EM2205361011				
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:	**C03.0120220407132213_05**	**This report is attached as part of a WCR form referencing WGT-302-000-WKN-CJH-105-SWI-0001_01**

ATTACHMENT B: 95% UCL AVE CALCULATIONS

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.112/04/2022 1:22:37 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Arsenic

General Statistics

Total Number of Observations	22	Number of Distinct Observations	18
		Number of Missing Observations	0
Minimum	17	Mean	29.45
Maximum	55	Median	30
SD	7.757	Std. Error of Mean	1.654
Coefficient of Variation	0.263	Skewness	1.422

Normal GOF Test

Shapiro Wilk Test Statistic	0.873	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.911	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.154	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.184	Data appear Normal at 5% Significance Level

Data appear Approximate Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	32.3	95% Adjusted-CLT UCL (Chen-1995)	32.71
		95% Modified-t UCL (Johnson-1978)	32.38

Gamma GOF Test

A-D Test Statistic	0.544	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.741	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.132	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.185	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	16.55	k star (bias corrected MLE)	14.33
Theta hat (MLE)	1.779	Theta star (bias corrected MLE)	2.056
nu hat (MLE)	728.3	nu star (bias corrected)	630.3
MLE Mean (bias corrected)	29.45	MLE Sd (bias corrected)	7.782
		Approximate Chi Square Value (0.05)	573.1
Adjusted Level of Significance	0.0386	Adjusted Chi Square Value	569

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	32.4	95% Adjusted Gamma UCL (use when n<50)	32.63

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.942	**Shapiro Wilk Lognormal GOF Test**

53				5% Shapiro Wilk Critical Value		0.911		Data appear Lognormal at 5% Significance Level				
54				Lilliefors Test Statistic		0.133		**Lilliefors Lognormal GOF Test**				
55				5% Lilliefors Critical Value		0.184		Data appear Lognormal at 5% Significance Level				
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59				Minimum of Logged Data		2.833		Mean of logged Data				3.352
60				Maximum of Logged Data		4.007		SD of logged Data				0.251
61												
62	**Assuming Lognormal Distribution**											
63				95% H-UCL		32.55		90% Chebyshev (MVUE) UCL				34.22
64				95% Chebyshev (MVUE) UCL		36.38		97.5% Chebyshev (MVUE) UCL				39.38
65				99% Chebyshev (MVUE) UCL		45.28						
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		32.17		95% Jackknife UCL				32.3
72				95% Standard Bootstrap UCL		32.07		95% Bootstrap-t UCL				32.81
73				95% Hall's Bootstrap UCL		35		95% Percentile Bootstrap UCL				32.14
74				95% BCA Bootstrap UCL		32.5						
75				90% Chebyshev(Mean, Sd) UCL		34.42		95% Chebyshev(Mean, Sd) UCL				36.66
76				97.5% Chebyshev(Mean, Sd) UCL		39.78		99% Chebyshev(Mean, Sd) UCL				45.91
77												
78	**Suggested UCL to Use**											
79				95% Student's-t UCL		32.3						
80												
81	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
82	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
83												
84	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
85	Recommendations are based upon data size, data distribution, and skewness.											
86	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
88												
89												
90	**Nickel**											
91												
92	**General Statistics**											
93				Total Number of Observations		22		Number of Distinct Observations				19
94								Number of Missing Observations				0
95				Minimum		110		Mean				173.5
96				Maximum		240		Median				169.5
97				SD		32.39		Std. Error of Mean				6.905
98				Coefficient of Variation		0.187		Skewness				-0.0199
99												
100	**Normal GOF Test**											
101				Shapiro Wilk Test Statistic		0.952		**Shapiro Wilk GOF Test**				
102				5% Shapiro Wilk Critical Value		0.911		Data appear Normal at 5% Significance Level				
103				Lilliefors Test Statistic		0.16		**Lilliefors GOF Test**				
104				5% Lilliefors Critical Value		0.184		Data appear Normal at 5% Significance Level				

105	**Data appear Normal at 5% Significance Level**											
106												
107	**Assuming Normal Distribution**											
108	**95% Normal UCL**						**95% UCLs (Adjusted for Skewness)**					
109	95% Student's-t UCL				185.4		95% Adjusted-CLT UCL (Chen-1995)				184.8	
110							95% Modified-t UCL (Johnson-1978)				185.4	
111												
112	**Gamma GOF Test**											
113	A-D Test Statistic				0.615		**Anderson-Darling Gamma GOF Test**					
114	5% A-D Critical Value				0.741		Detected data appear Gamma Distributed at 5% Significance Level					
115	K-S Test Statistic				0.176		**Kolmogorov-Smirnov Gamma GOF Test**					
116	5% K-S Critical Value				0.185		Detected data appear Gamma Distributed at 5% Significance Level					
117	**Detected data appear Gamma Distributed at 5% Significance Level**											
118												
119	**Gamma Statistics**											
120	k hat (MLE)				28.66		k star (bias corrected MLE)				24.78	
121	Theta hat (MLE)				6.054		Theta star (bias corrected MLE)				7.002	
122	nu hat (MLE)				1261		nu star (bias corrected)				1090	
123	MLE Mean (bias corrected)				173.5		MLE Sd (bias corrected)				34.85	
124							Approximate Chi Square Value (0.05)				1015	
125	Adjusted Level of Significance				0.0386		Adjusted Chi Square Value				1009	
126												
127	**Assuming Gamma Distribution**											
128	95% Approximate Gamma UCL (use when n>=50))				186.4		95% Adjusted Gamma UCL (use when n<50)				187.4	
129												
130	**Lognormal GOF Test**											
131	Shapiro Wilk Test Statistic				0.929		**Shapiro Wilk Lognormal GOF Test**					
132	5% Shapiro Wilk Critical Value				0.911		Data appear Lognormal at 5% Significance Level					
133	Lilliefors Test Statistic				0.191		**Lilliefors Lognormal GOF Test**					
134	5% Lilliefors Critical Value				0.184		Data Not Lognormal at 5% Significance Level					
135	**Data appear Approximate Lognormal at 5% Significance Level**											
136												
137	**Lognormal Statistics**											
138	Minimum of Logged Data				4.7		Mean of logged Data				5.139	
139	Maximum of Logged Data				5.481		SD of logged Data				0.195	
140												
141	**Assuming Lognormal Distribution**											
142	95% H-UCL				187.4		90% Chebyshev (MVUE) UCL				195.4	
143	95% Chebyshev (MVUE) UCL				205.3		97.5% Chebyshev (MVUE) UCL				219	
144	99% Chebyshev (MVUE) UCL				245.9							
145												
146	**Nonparametric Distribution Free UCL Statistics**											
147	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
148												
149	**Nonparametric Distribution Free UCLs**											
150	95% CLT UCL				184.9		95% Jackknife UCL				185.4	
151	95% Standard Bootstrap UCL				184.8		95% Bootstrap-t UCL				185	
152	95% Hall's Bootstrap UCL				185.4		95% Percentile Bootstrap UCL				184.4	
153	95% BCA Bootstrap UCL				184.2							
154	90% Chebyshev(Mean, Sd) UCL				194.2		95% Chebyshev(Mean, Sd) UCL				203.6	
155	97.5% Chebyshev(Mean, Sd) UCL				216.6		99% Chebyshev(Mean, Sd) UCL				242.2	
156												

	A	B	C	D	E	F	G	H	I	J	K	L
157	**Suggested UCL to Use**											
158					95% Student's-t UCL	185.4						
159												
160	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
161	Recommendations are based upon data size, data distribution, and skewness.											
162	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
163	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
164												
165	**Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be**											
166	**reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.**											
167												

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	**C03.0120220407132213_05**	**This report is attached as part of a WCR form referencing WGT-302-000-WKN-CJH-105-SWI-0001_01**

ATTACHMENT C: LABORATORY CERTIFICATES

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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

☐ **Brisbane Laboratory** Unit 1 21 Smallwood Place Murarrie QLD 4172 07 3902 4600 EnviroSampleQLD@eurofins.com

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

☑ **Melbourne Laboratory** 6 Monterey Road Dandenong South VIC 3175 03 8564 5000 EnviroSampleVic@eurofins.com

Company	AGON Environmental - Tunnel Spoil Testing	Project №	JC0927	Project Manager	Craig Trimbur
Address	Unit H76, 63-85 Turner St, Port Melbourne VIC 3207	Project Name	WGTP-Tunnel Ref:20220324045208-Eurofin-12	EDD Format (Esdat, EQuIS etc)	Esdat
Contact Name	Craig Trimbur David Lawson				
Phone №	+61 400 826 907 (Craig) +61 490 411 004 (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 oter sample recipt documentation.				
Purchase Order					
Quote ID №	Agon WGTP TST				

Sampler(s)	Emma.S - EP Risk & Toby.B - Agon
Handed over by	
Email for Invoice	finance@agonenviro.com.au LabReports.TST@agonenviro.com.au
Email for Results	LabReports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motherhublabresults1@wgtp.com.au Amrit.Kaur@agile-analytics.com.au

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

- Spoil Sample Preparation
- Suite WGTP-R1-TRH/ PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb,Hg, Ag, Sn, Mo, Se, Zn)/ Cr6+/ CN/ Total Fluoride/ pH
- PFAS Extended Suite - 0.1- 5ug/Kg
- ASLP PH 5 - PFAS 0.01-0.05 ug/l
- ASLP Reagent - PFAS 0.01-0.05ug/l

Containers (Change container type & size if necessary)

- 500mL Plastic
- 250mL Plastic
- 125mL Plastic
- 200mL Amber Glass
- 40mL VOA vial
- 500mL PFAS Bottle
- Jar (Glass or HDPE)
- Other (Asbestos AS4964, WA Guidelines)

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

♦Surcharge will apply

- ☐ Overnight (reporting by 9am)♦
- ☐ Same day♦ ☐ 1 day♦
- ☐ 2 days♦ ☐ 3 days♦
- ☑ 5 days (Standard)
- ☐ Other( )

№	Client Sample ID	Sampled Date/Time dd/mm/yy hh:mm	Matrix Solid (S) Water (W)	Spoil Sample Preparation	Suite WGTP-R1-TRH/ PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb,Hg, Ag, Sn, Mo, Se, Zn)/ Cr6+/ CN/ Total Fluoride/ pH	PFAS Extended Suite - 0.1- 5ug/Kg	ASLP PH 5 - PFAS 0.01-0.05 ug/l	ASLP Reagent - PFAS 0.01-0.05ug/l	500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
1	SX_OB_20220323_08_12_SS_Primary_EUF	23/03/22	S	X	X	X	X	X								1	
2	SX_OB_20220323_08_21_SS_Triplicate_EUF	23/03/22	S	X	X	X	X	X								1	
3	SX_OB_20220323_12_23_SS_Primary_EUF	23/03/22	S	X	X	X	X	X								1	
4	SX_OB_20220323_15_38_SR_Rinsate_EUF	23/03/22	W			X										1	
5	SX_OB_20220323_15_40_SB_Blank_EUF	23/03/22	W			X										1	
6	SX_OB_20220323_16_01_SS_Primary_EUF	23/03/22	S	X	X	X	X	X								1	
7	SX_OB_20220323_16_02_SS_Duplicate_EUF	23/03/22	S	X	X	X	X	X								1	
8	SX_OB_20220323_19_59_SS_Primary_EUF	23/03/22	S	X	X	X	X	X								1	
9	SX_OB_20220323_23_59_SS_Primary_EUF	23/03/22	S	X	X	X	X	X								1	
10	SX_OB_20220324_03_56_SS_Primary_EUF	24/03/22	S	X	X	X	X	X								1	
11																	
12																	
13																	
			Total Counts	8	8	10	8	8								10	

Date/Time:
Chilled: Yes / No
Temp:
Correction:
Final Temp:

Method of Shipment	☑ Courier (# 1779)	☐ Hand Delivered	☐ Postal	Name	LUKE DARCAS	Signature		Date	24/3/22	Time	9:16
Laboratory Use Only	Received By	TARUN	SYD / BNE / MEL / PER / ADL / NTL / DRW	Signature		Date	24/3/22	Time	12:12PM	Temperature	
	Received By		SYD / BNE / MEL / PER / ADL / NTL / DRW	Signature		Date		Time		Report №	

Eurofins Environment Testing Australia Pty Ltd

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

EA006 R10 Modified by: Dr R Symons Approved by: G Jackson Approved on: 8 August 2019

873973
Jake

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 **873973-L**
Project name 20220324045208-Eurofin-12
Project ID JC0927
Received Date Mar 24, 2022

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_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-Ma50306	M22-Ma50307	M22-Ma50308	M22-Ma50309
Date Sampled			Mar 23, 2022	Mar 23, 2022	Mar 23, 2022	Mar 23, 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	5.1	5.1	5.1	5.1
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	%	119	110	107	118
13C5-PFPeA (surr.)	1	%	97	83	87	85
13C5-PFHxA (surr.)	1	%	106	93	90	103
13C4-PFHpA (surr.)	1	%	86	82	76	86
13C8-PFOA (surr.)	1	%	53	56	51	76
13C5-PFNA (surr.)	1	%	87	96	78	80
13C6-PFDA (surr.)	1	%	83	106	67	68
13C2-PFUnDA (surr.)	1	%	85	136	74	81
13C2-PFDoDA (surr.)	1	%	86	163	80	85
13C2-PFTeDA (surr.)	1	%	76	155	92	65
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_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-Ma50306**	**M22-Ma50307**	**M22-Ma50308**	**M22-Ma50309**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	79	106	67	71
D3-N-MeFOSA (surr.)	1	%	146	149	104	94
D5-N-EtFOSA (surr.)	1	%	153	152	96	91
D7-N-MeFOSE (surr.)	1	%	145	136	71	119
D9-N-EtFOSE (surr.)	1	%	150	147	76	116
D5-N-EtFOSAA (surr.)	1	%	104	142	103	94
D3-N-MeFOSAA (surr.)	1	%	85	111	84	82
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	%	96	89	84	112
18O2-PFHxS (surr.)	1	%	96	105	94	101
13C8-PFOS (surr.)	1	%	83	92	71	66
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	80	72	76	79
13C2-6:2 FTSA (surr.)	1	%	138	140	116	96
13C2-8:2 FTSA (surr.)	1	%	100	135	78	72
13C2-10:2 FTSA (surr.)	1	%	114	103	109	119
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_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_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-Ma50310**	**M22-Ma50311**	**M22-Ma50312**	**M22-Ma50313**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 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	5.1	5.1	5.1	5.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (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	%	114	110	117	116
13C5-PFPeA (surr.)	1	%	85	88	91	97
13C5-PFHxA (surr.)	1	%	96	95	105	103
13C4-PFHpA (surr.)	1	%	80	79	89	78
13C8-PFOA (surr.)	1	%	79	68	73	112
13C5-PFNA (surr.)	1	%	76	75	84	74
13C6-PFDA (surr.)	1	%	68	67	83	65
13C2-PFUnDA (surr.)	1	%	58	84	104	68
13C2-PFDoDA (surr.)	1	%	59	78	99	69
13C2-PFTeDA (surr.)	1	%	42	61	60	33
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	%	58	78	87	75
D3-N-MeFOSA (surr.)	1	%	68	100	87	74
D5-N-EtFOSA (surr.)	1	%	61	96	84	67
D7-N-MeFOSE (surr.)	1	%	68	125	102	84
D9-N-EtFOSE (surr.)	1	%	66	128	108	84
D5-N-EtFOSAA (surr.)	1	%	94	78	97	98
D3-N-MeFOSAA (surr.)	1	%	64	85	93	60

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_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-Ma50310**	**M22-Ma50311**	**M22-Ma50312**	**M22-Ma50313**
Date Sampled			Mar 23, 2022	Mar 23, 2022	Mar 23, 2022	Mar 24, 2022
Test/Reference	LOR	Unit				
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	%	100	101	107	112
18O2-PFHxS (surr.)	1	%	99	99	104	102
13C8-PFOS (surr.)	1	%	62	75	86	68
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	74	71	78	71
13C2-6:2 FTSA (surr.)	1	%	88	94	91	75
13C2-8:2 FTSA (surr.)	1	%	42	64	74	55
13C2-10:2 FTSA (surr.)	1	%	73	117	131	78
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_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_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-Ma50314**	**M22-Ma50315**	**M22-Ma50316**	**M22-Ma50317**
Date Sampled			Mar 23, 2022	Mar 23, 2022	Mar 23, 2022	Mar 23, 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	6.1	6.1	6.1	6.1
pH (off)	0.1	pH Units	8.7	8.9	9.0	9.0

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_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-Ma50314**	**M22-Ma50315**	**M22-Ma50316**	**M22-Ma50317**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 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	%	114	93	98	116
13C5-PFPeA (surr.)	1	%	83	70	63	75
13C5-PFHxA (surr.)	1	%	97	59	94	111
13C4-PFHpA (surr.)	1	%	82	76	84	91
13C8-PFOA (surr.)	1	%	54	93	90	100
13C5-PFNA (surr.)	1	%	84	83	91	103
13C6-PFDA (surr.)	1	%	97	85	97	109
13C2-PFUnDA (surr.)	1	%	112	151	137	164
13C2-PFDoDA (surr.)	1	%	116	185	166	193
13C2-PFTeDA (surr.)	1	%	78	176	123	127
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	%	90	90	100	112
D3-N-MeFOSA (surr.)	1	%	82	83	88	46
D5-N-EtFOSA (surr.)	1	%	69	78	73	40
D7-N-MeFOSE (surr.)	1	%	63	117	114	117
D9-N-EtFOSE (surr.)	1	%	66	124	117	126
D5-N-EtFOSAA (surr.)	1	%	184	107	123	109
D3-N-MeFOSAA (surr.)	1	%	135	125	161	140
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_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_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-Ma50314	M22-Ma50315	M22-Ma50316	M22-Ma50317
Date Sampled			Mar 23, 2022	Mar 23, 2022	Mar 23, 2022	Mar 23, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	[N09]< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	57	59	73
18O2-PFHxS (surr.)	1	%	99	74	109	111
13C8-PFOS (surr.)	1	%	88	87	97	107
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	73	120	99	107
13C2-6:2 FTSA (surr.)	1	%	136	109	80	71
13C2-8:2 FTSA (surr.)	1	%	130	83	106	196
13C2-10:2 FTSA (surr.)	1	%	147	135	116	126
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_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_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-Ma50318	M22-Ma50319	M22-Ma50320	M22-Ma50321
Date Sampled			Mar 23, 2022	Mar 23, 2022	Mar 23, 2022	Mar 24, 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	6.1	6.1	6.1	6.1
pH (off)	0.1	pH Units	9.0	9.2	9.1	9.2
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_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_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-Ma50318**	**M22-Ma50319**	**M22-Ma50320**	**M22-Ma50321**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 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	%	109	84	98	90
13C5-PFPeA (surr.)	1	%	75	61	76	66
13C5-PFHxA (surr.)	1	%	102	84	92	89
13C4-PFHpA (surr.)	1	%	80	67	70	69
13C8-PFOA (surr.)	1	%	96	75	68	111
13C5-PFNA (surr.)	1	%	83	67	69	71
13C6-PFDA (surr.)	1	%	86	74	69	68
13C2-PFUnDA (surr.)	1	%	132	99	90	90
13C2-PFDoDA (surr.)	1	%	145	106	104	86
13C2-PFTeDA (surr.)	1	%	93	67	62	55
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	95	83	75	80
D3-N-MeFOSA (surr.)	1	%	115	95	55	54
D5-N-EtFOSA (surr.)	1	%	97	78	48	40
D7-N-MeFOSE (surr.)	1	%	99	75	65	46
D9-N-EtFOSE (surr.)	1	%	101	76	69	44
D5-N-EtFOSAA (surr.)	1	%	99	92	85	95
D3-N-MeFOSAA (surr.)	1	%	122	115	125	138
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	%	96	86	81	98
18O2-PFHxS (surr.)	1	%	103	92	92	90
13C8-PFOS (surr.)	1	%	81	73	69	66

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_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-Ma50318**	**M22-Ma50319**	**M22-Ma50320**	**M22-Ma50321**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	93	73	81	74
13C2-6:2 FTSA (surr.)	1	%	64	52	59	53
13C2-8:2 FTSA (surr.)	1	%	134	97	85	33
13C2-10:2 FTSA (surr.)	1	%	102	135	142	102
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
AUS Leaching Procedure			
pH (initial)	Melbourne	Mar 25, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (Leachate fluid)	Melbourne	Mar 25, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (off)	Melbourne	Mar 25, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Mar 24, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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_20220323_08_12_SS_Primary_EUF	Mar 23, 2022	8:12AM	Soil	M22-Ma50296		X	X	X
2	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	Soil	M22-Ma50297		X	X	X
3	SX_OB_20220323_12_23_SS_Primary_EUF	Mar 23, 2022	12:23PM	Soil	M22-Ma50298		X	X	X

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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_20220323_15_38_SR_Rinsate_EUF	Mar 23, 2022	3:38PM	Water	M22-Ma50299			X	
5	SX_OB_20220323_15_40_SB_Blank_EUF	Mar 23, 2022	3:40PM	Water	M22-Ma50300			X	
6	SX_OB_20220323_16_01_SS_Primary_EUF	Mar 23, 2022	4:01PM	Soil	M22-Ma50301		X	X	X
7	SX_OB_20220323_16_02_SS_Duplicate_E	Mar 23, 2022	4:02PM	Soil	M22-Ma50302		X	X	X

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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									
	UF								
8	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	Soil	M22-Ma50303		X	X	X
9	SX_OB_20220323_23_59_SS_Primary_EUF	Mar 23, 2022	11:59PM	Soil	M22-Ma50304		X	X	X
10	SX_OB_20220324_03_56_SS_Primary_EUF	Mar 24, 2022	3:56AM	Soil	M22-Ma50305		X	X	X
11	SX_OB_20220	Mar 23, 2022	8:12AM	AUS Leachate	M22-Ma50306	X		X	

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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									
	323_08_12_SS_Primary_EUF			- pH 5.0					
12	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	AUS Leachate - pH 5.0	M22-Ma50307	X		X	
13	SX_OB_20220323_12_23_SS_Primary_EUF	Mar 23, 2022	12:23PM	AUS Leachate - pH 5.0	M22-Ma50308	X		X	
14	SX_OB_20220323_16_01_SS_Primary_EU	Mar 23, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ma50309	X		X	

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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									
	F								
15	SX_OB_20220323_16_02_SS_Duplicate_EUF	Mar 23, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ma50310	X		X	
16	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	AUS Leachate - pH 5.0	M22-Ma50311	X		X	
17	SX_OB_20220323_23_59_SS_Primary_EUF	Mar 23, 2022	11:59PM	AUS Leachate - pH 5.0	M22-Ma50312	X		X	
18	SX_OB_20220	Mar 24, 2022	3:56AM	AUS Leachate	M22-Ma50313	X		X	

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NATA # 1261 Site # 1254

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	324_03_56_SS_Primary_EUF			- pH 5.0					
19	SX_OB_20220323_08_12_SS_Primary_EUF	Mar 23, 2022	8:12AM	AUS Leachate - Reagent Water	M22-Ma50314	X		X	
20	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	AUS Leachate - Reagent Water	M22-Ma50315	X		X	
21	SX_OB_20220323_12_23_SS_Primary_EU	Mar 23, 2022	12:23PM	AUS Leachate - Reagent Water	M22-Ma50316	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	F								
22	SX_OB_20220323_16_01_SS_Primary_EUF	Mar 23, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ma50317	X		X	
23	SX_OB_20220323_16_02_SS_Duplicate_EUF	Mar 23, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Ma50318	X		X	
24	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	AUS Leachate - Reagent Water	M22-Ma50319	X		X	
25	SX_OB_20220	Mar 23, 2022	11:59PM	AUS Leachate	M22-Ma50320	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	323_23_59_SS_Primary_EUF			- Reagent Water					
26	SX_OB_20220324_03_56_SS_Primary_EUF	Mar 24, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Ma50321	X		X	
Test Counts						16	8	26	8

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	57			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	94			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	95			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	91			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	94			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	80			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	81			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	92			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	88			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	89			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	89			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	77			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	90			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	73			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	73			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	110			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	103			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	91			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	55			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	109			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-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma50306	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-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma50306	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma50306	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma50316	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma50316	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma50316	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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Michael Cassidy	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS (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.

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

Attention: **David Lawson**

Report **873973-S**
Project name 20220324045208-Eurofin-12
Project ID JC0927
Received Date Mar 24, 2022

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma50296	M22-Ma50297	M22-Ma50298	M22-Ma50301
Date Sampled			Mar 23, 2022	Mar 23, 2022	Mar 23, 2022	Mar 23, 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_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50296**	**M22-Ma50297**	**M22-Ma50298**	**M22-Ma50301**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 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	%	59	73	54	76
Toluene-d8 (surr.)	1	%	52	62	59	69
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_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50296**	**M22-Ma50297**	**M22-Ma50298**	**M22-Ma50301**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 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	%	77	67	61	83
p-Terphenyl-d14 (surr.)	1	%	90	88	90	96
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	%	84	99	100	103
Tetrachloro-m-xylene (surr.)	1	%	121	119	124	134

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50296**	**M22-Ma50297**	**M22-Ma50298**	**M22-Ma50301**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 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
Dibutylchlorendate (surr.)	1	%	84	99	100	103
Tetrachloro-m-xylene (surr.)	1	%	121	119	124	134
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	%	67	81	73	88
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.7	8.6	8.7	8.5
% Moisture	1	%	27	26	27	25
Heavy Metals						
Arsenic	2	mg/kg	33	17	28	30
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	160	62	140	120
Copper	5	mg/kg	79	43	62	60
Lead	5	mg/kg	5.6	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50296**	**M22-Ma50297**	**M22-Ma50298**	**M22-Ma50301**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	240	120	190	200
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	69	120	110
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	%	77	77	78	78
13C5-PFPeA (surr.)	1	%	76	79	86	87
13C5-PFHxA (surr.)	1	%	64	63	69	73
13C4-PFHpA (surr.)	1	%	71	70	70	73
13C8-PFOA (surr.)	1	%	53	52	56	66
13C5-PFNA (surr.)	1	%	88	76	76	83
13C6-PFDA (surr.)	1	%	64	61	67	63
13C2-PFUnDA (surr.)	1	%	71	79	79	75
13C2-PFDoDA (surr.)	1	%	89	87	86	85
13C2-PFTeDA (surr.)	1	%	71	79	81	80
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	%	80	85	81	77
D3-N-MeFOSA (surr.)	1	%	90	103	101	98
D5-N-EtFOSA (surr.)	1	%	107	110	113	110
D7-N-MeFOSE (surr.)	1	%	76	77	74	74
D9-N-EtFOSE (surr.)	1	%	75	78	81	79
D5-N-EtFOSAA (surr.)	1	%	144	94	142	86
D3-N-MeFOSAA (surr.)	1	%	141	90	139	145

Client Sample ID			SX_OB_20220323_08_12_SS_Primary_EUF	SX_OB_20220323_08_21_SS_Triplicate_EUF	SX_OB_20220323_12_23_SS_Primary_EUF	SX_OB_20220323_16_01_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50296**	**M22-Ma50297**	**M22-Ma50298**	**M22-Ma50301**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
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	%	67	66	64	68
18O2-PFHxS (surr.)	1	%	74	78	87	76
13C8-PFOS (surr.)	1	%	55	93	51	72
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	70	71	77	76
13C2-6:2 FTSA (surr.)	1	%	99	56	55	55
13C2-8:2 FTSA (surr.)	1	%	79	71	82	83
13C2-10:2 FTSA (surr.)	1	%	96	93	92	98
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_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 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

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	78	51	57	80
Toluene-d8 (surr.)	1	%	69	53	61	71
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	52	62	84
p-Terphenyl-d14 (surr.)	1	%	98	79	89	104

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 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	%	98	82	94	110
Tetrachloro-m-xylene (surr.)	1	%	122	111	127	123
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	98	82	94	110
Tetrachloro-m-xylene (surr.)	1	%	122	111	127	123
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_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 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	%	66	71	76	97
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.4	8.9	8.7	8.9
% Moisture	1	%	27	27	29	29
Heavy Metals						
Arsenic	2	mg/kg	31	29	19	55
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	49	52	140
Copper	5	mg/kg	61	41	41	54
Lead	5	mg/kg	< 5	< 5	< 5	6.0
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	220	110	120	160
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	160	67	67	100
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	%	150	79	77	78
13C5-PFPeA (surr.)	1	%	82	90	76	83
13C5-PFHxA (surr.)	1	%	65	79	70	78

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	66	69	68	71
13C8-PFOA (surr.)	1	%	71	76	73	75
13C5-PFNA (surr.)	1	%	76	84	78	73
13C6-PFDA (surr.)	1	%	61	57	54	51
13C2-PFUnDA (surr.)	1	%	66	78	73	77
13C2-PFDoDA (surr.)	1	%	92	88	83	83
13C2-PFTeDA (surr.)	1	%	76	77	81	77
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	74	82	83	81
D3-N-MeFOSA (surr.)	1	%	99	95	101	96
D5-N-EtFOSA (surr.)	1	%	106	110	109	108
D7-N-MeFOSE (surr.)	1	%	74	73	75	73
D9-N-EtFOSE (surr.)	1	%	76	76	77	78
D5-N-EtFOSAA (surr.)	1	%	127	87	145	85
D3-N-MeFOSAA (surr.)	1	%	76	77	147	143
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
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	%	69	74	67	76
18O2-PFHxS (surr.)	1	%	72	79	73	71
13C8-PFOS (surr.)	1	%	94	53	64	50
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	72	73	75	64
13C2-6:2 FTSA (surr.)	1	%	57	55	51	97

Client Sample ID			SX_OB_20220323_16_02_SS_Duplicate_EUF	SX_OB_20220323_19_59_SS_Primary_EUF	SX_OB_20220323_23_59_SS_Primary_EUF	SX_OB_20220324_03_56_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma50302**	**M22-Ma50303**	**M22-Ma50304**	**M22-Ma50305**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**	**Mar 23, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-8:2 FTSA (surr.)	1	%	76	78	86	78
13C2-10:2 FTSA (surr.)	1	%	93	104	110	96
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

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	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Mar 25, 2022	7 Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
Volatile Organics	Melbourne	Mar 25, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polycyclic Aromatic Hydrocarbons	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Chromium (hexavalent)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride (Total)	Melbourne	Mar 26, 2022	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			
- Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Mar 25, 2022	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Metals IWRG 621 : Metals M12	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Mar 24, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Mar 25, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Mar 24, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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_20220323_08_12_SS_Primary_EUF	Mar 23, 2022	8:12AM	Soil	M22-Ma50296		X	X	X
2	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	Soil	M22-Ma50297		X	X	X
3	SX_OB_20220323_12_23_SS_Primary_EUF	Mar 23, 2022	12:23PM	Soil	M22-Ma50298		X	X	X

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Company Name: Agon Environmental Pty Ltd - VIC
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SA 5063

Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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_20220323_15_38_SR_Rinsate_EUF	Mar 23, 2022	3:38PM	Water	M22-Ma50299			X	
5	SX_OB_20220323_15_40_SB_Blank_EUF	Mar 23, 2022	3:40PM	Water	M22-Ma50300			X	
6	SX_OB_20220323_16_01_SS_Primary_EUF	Mar 23, 2022	4:01PM	Soil	M22-Ma50301		X	X	X
7	SX_OB_20220323_16_02_SS_Duplicate_E	Mar 23, 2022	4:02PM	Soil	M22-Ma50302		X	X	X

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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									
	UF								
8	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	Soil	M22-Ma50303		X	X	X
9	SX_OB_20220323_23_59_SS_Primary_EUF	Mar 23, 2022	11:59PM	Soil	M22-Ma50304		X	X	X
10	SX_OB_20220324_03_56_SS_Primary_EUF	Mar 24, 2022	3:56AM	Soil	M22-Ma50305		X	X	X
11	SX_OB_20220	Mar 23, 2022	8:12AM	AUS Leachate	M22-Ma50306	X		X	

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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									
	323_08_12_SS_Primary_EUF			- pH 5.0					
12	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	AUS Leachate - pH 5.0	M22-Ma50307	X		X	
13	SX_OB_20220323_12_23_SS_Primary_EUF	Mar 23, 2022	12:23PM	AUS Leachate - pH 5.0	M22-Ma50308	X		X	
14	SX_OB_20220323_16_01_SS_Primary_EU	Mar 23, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ma50309	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									
	F								
15	SX_OB_20220323_16_02_SS_Duplicate_EUF	Mar 23, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ma50310	X		X	
16	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	AUS Leachate - pH 5.0	M22-Ma50311	X		X	
17	SX_OB_20220323_23_59_SS_Primary_EUF	Mar 23, 2022	11:59PM	AUS Leachate - pH 5.0	M22-Ma50312	X		X	
18	SX_OB_20220	Mar 24, 2022	3:56AM	AUS Leachate	M22-Ma50313	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									
	324_03_56_SS_Primary_EUF			- pH 5.0					
19	SX_OB_20220323_08_12_SS_Primary_EUF	Mar 23, 2022	8:12AM	AUS Leachate - Reagent Water	M22-Ma50314	X		X	
20	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	AUS Leachate - Reagent Water	M22-Ma50315	X		X	
21	SX_OB_20220323_12_23_SS_Primary_EU	Mar 23, 2022	12:23PM	AUS Leachate - Reagent Water	M22-Ma50316	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									
	F								
22	SX_OB_20220323_16_01_SS_Primary_EUF	Mar 23, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ma50317	X		X	
23	SX_OB_20220323_16_02_SS_Duplicate_EUF	Mar 23, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Ma50318	X		X	
24	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	AUS Leachate - Reagent Water	M22-Ma50319	X		X	
25	SX_OB_20220	Mar 23, 2022	11:59PM	AUS Leachate	M22-Ma50320	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
	323_23_59_SS_Primary_EUF			- Reagent Water					
26	SX_OB_20220324_03_56_SS_Primary_EUF	Mar 24, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Ma50321	X		X	
Test Counts						16	8	26	8

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
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 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	114			70-130	Pass	
TRH C10-C14	%	85			70-130	Pass	
Naphthalene	%	124			70-130	Pass	
TRH C6-C10	%	100			70-130	Pass	
TRH >C10-C16	%	80			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	78			70-130	Pass	
1.1.1-Trichloroethane	%	115			70-130	Pass	
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	115			70-130	Pass	
Benzene	%	114			70-130	Pass	
Ethylbenzene	%	115			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	123			70-130	Pass	
Toluene	%	122			70-130	Pass	
Trichloroethene	%	109			70-130	Pass	
Xylenes - Total*	%	118			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	101			70-130	Pass	
Acenaphthylene	%	112			70-130	Pass	
Anthracene	%	104			70-130	Pass	
Benz(a)anthracene	%	89			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	%	88			70-130	Pass	
Benzo(g.h.i)perylene	%	94			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	
Chrysene	%	96			70-130	Pass	
Dibenz(a.h)anthracene	%	96			70-130	Pass	
Fluoranthene	%	106			70-130	Pass	
Fluorene	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	97			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	96			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	78			70-130	Pass	
4.4'-DDD	%	120			70-130	Pass	
4.4'-DDE	%	84			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-HCH	%	85			70-130	Pass	
Aldrin	%	78			70-130	Pass	
b-HCH	%	77			70-130	Pass	
d-HCH	%	85			70-130	Pass	
Dieldrin	%	91			70-130	Pass	
Endosulfan I	%	78			70-130	Pass	
Endosulfan II	%	76			70-130	Pass	
Endosulfan sulphate	%	73			70-130	Pass	
Endrin	%	77			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-HCH (Lindane)	%	77			70-130	Pass	
Heptachlor	%	73			70-130	Pass	
Heptachlor epoxide	%	77			70-130	Pass	
Hexachlorobenzene	%	81			70-130	Pass	
Methoxychlor	%	120			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	97			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	94			25-140	Pass	
2.4-Dichlorophenol	%	99			25-140	Pass	
2.4.5-Trichlorophenol	%	101			25-140	Pass	
2.4.6-Trichlorophenol	%	93			25-140	Pass	
2.6-Dichlorophenol	%	97			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	96			25-140	Pass	
Pentachlorophenol	%	92			25-140	Pass	
Tetrachlorophenols - Total	%	83			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	37			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	59			25-140	Pass	
2-Nitrophenol	%	102			25-140	Pass	
2.4-Dimethylphenol	%	98			25-140	Pass	
2.4-Dinitrophenol	%	52			25-140	Pass	
2-Methylphenol (o-Cresol)	%	78			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	101			25-140	Pass	
4-Nitrophenol	%	102			25-140	Pass	
Dinoseb	%	72			25-140	Pass	
Phenol	%	88			25-140	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	103			70-130	Pass	
Cyanide (total)	%	112			70-130	Pass	
Fluoride (Total)	%	80			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	111			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	113			80-120	Pass	
Mercury	%	108			80-120	Pass	
Molybdenum	%	107			80-120	Pass	
Nickel	%	107			80-120	Pass	
Selenium	%	104			80-120	Pass	
Silver	%	106			80-120	Pass	
Tin	%	105			80-120	Pass	
Zinc	%	108			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	89			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	87			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	99			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	121			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	98			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	108			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	96			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	106			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	102			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	100			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	96			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	102			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	81			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	83			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	95			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	126			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	53			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	93			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	103			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	123			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	97			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	121			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	89			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M22-Ma57287	NCP	%	107			70-130	Pass	
4.4'-DDD	M22-Ma57287	NCP	%	106			70-130	Pass	
4.4'-DDE	M22-Ma57287	NCP	%	104			70-130	Pass	
4.4'-DDT	M22-Ma57287	NCP	%	85			70-130	Pass	
a-HCH	M22-Ma57287	NCP	%	120			70-130	Pass	
Aldrin	M22-Ma57287	NCP	%	97			70-130	Pass	
b-HCH	M22-Ma57287	NCP	%	75			70-130	Pass	
d-HCH	M22-Ma57287	NCP	%	95			70-130	Pass	
Dieldrin	M22-Ma57287	NCP	%	115			70-130	Pass	
Endosulfan I	M22-Ma57287	NCP	%	115			70-130	Pass	
Endosulfan II	M22-Ma57287	NCP	%	85			70-130	Pass	
Endosulfan sulphate	M22-Ma57287	NCP	%	90			70-130	Pass	
Endrin	M22-Ma57287	NCP	%	124			70-130	Pass	
Endrin aldehyde	M22-Ma57287	NCP	%	112			70-130	Pass	
Endrin ketone	M22-Ma57287	NCP	%	78			70-130	Pass	
g-HCH (Lindane)	M22-Ma57287	NCP	%	114			70-130	Pass	
Heptachlor	M22-Ma57287	NCP	%	115			70-130	Pass	
Heptachlor epoxide	M22-Ma57287	NCP	%	115			70-130	Pass	
Hexachlorobenzene	M22-Ma57287	NCP	%	113			70-130	Pass	
Methoxychlor	M22-Ma57287	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M22-Ma42822	NCP	%	101			70-130	Pass	
Aroclor-1260	M22-Ma42822	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Chromium	M22-Ma53260	NCP	%	112			75-125	Pass	
Copper	M22-Ma53260	NCP	%	108			75-125	Pass	
Nickel	M22-Ma53260	NCP	%	92			75-125	Pass	
Zinc	M22-Ma53260	NCP	%	110			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Ma50297	CP	%	72			70-130	Pass	
TRH C10-C14	M22-Ma50297	CP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	M22-Ma50297	CP	%	95			70-130	Pass	
TRH C6-C10	M22-Ma50297	CP	%	70			70-130	Pass	
TRH >C10-C16	M22-Ma50297	CP	%	94			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-Ma50297	CP	%	104			70-130	Pass	
1.1.1-Trichloroethane	M22-Ma50297	CP	%	88			70-130	Pass	
1.2-Dichlorobenzene	M22-Ma50297	CP	%	82			70-130	Pass	
1.2-Dichloroethane	M22-Ma50297	CP	%	97			70-130	Pass	
Benzene	M22-Ma50297	CP	%	76			70-130	Pass	
Ethylbenzene	M22-Ma50297	CP	%	90			70-130	Pass	
m&p-Xylenes	M22-Ma50297	CP	%	87			70-130	Pass	
o-Xylene	M22-Ma50297	CP	%	91			70-130	Pass	
Toluene	M22-Ma50297	CP	%	77			70-130	Pass	
Trichloroethene	M22-Ma50297	CP	%	90			70-130	Pass	
Xylenes - Total*	M22-Ma50297	CP	%	88			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M22-Ma50297	CP	%	94			70-130	Pass	
Acenaphthylene	M22-Ma50297	CP	%	104			70-130	Pass	
Anthracene	M22-Ma50297	CP	%	98			70-130	Pass	
Benz(a)anthracene	M22-Ma50297	CP	%	86			70-130	Pass	
Benzo(a)pyrene	M22-Ma50297	CP	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	M22-Ma50297	CP	%	84			70-130	Pass	
Benzo(g.h.i)perylene	M22-Ma50297	CP	%	93			70-130	Pass	
Benzo(k)fluoranthene	M22-Ma50297	CP	%	91			70-130	Pass	
Chrysene	M22-Ma50297	CP	%	92			70-130	Pass	
Dibenz(a.h)anthracene	M22-Ma50297	CP	%	93			70-130	Pass	
Fluoranthene	M22-Ma50297	CP	%	98			70-130	Pass	
Fluorene	M22-Ma50297	CP	%	102			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-Ma50297	CP	%	93			70-130	Pass	
Naphthalene	M22-Ma50297	CP	%	86			70-130	Pass	
Phenanthrene	M22-Ma50297	CP	%	88			70-130	Pass	
Pyrene	M22-Ma50297	CP	%	100			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M22-Ma50297	CP	%	88			30-130	Pass	
2.4-Dichlorophenol	M22-Ma50297	CP	%	95			30-130	Pass	
2.4.5-Trichlorophenol	M22-Ma50297	CP	%	104			30-130	Pass	
2.4.6-Trichlorophenol	M22-Ma50297	CP	%	94			30-130	Pass	
2.6-Dichlorophenol	M22-Ma50297	CP	%	94			30-130	Pass	
4-Chloro-3-methylphenol	M22-Ma50297	CP	%	96			30-130	Pass	
Pentachlorophenol	M22-Ma50297	CP	%	98			30-130	Pass	
Tetrachlorophenols - Total	M22-Ma50297	CP	%	81			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M22-Ma50297	CP	%	33			30-130	Pass	
2-Methyl-4.6-dinitrophenol	M22-Ma50297	CP	%	50			30-130	Pass	
2-Nitrophenol	M22-Ma50297	CP	%	99			30-130	Pass	
2.4-Dimethylphenol	M22-Ma50297	CP	%	103			30-130	Pass	
2.4-Dinitrophenol	M22-Ma50297	CP	%	53			30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Ma50297	CP	%	77			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ma50297	CP	%	99			30-130	Pass	
4-Nitrophenol	M22-Ma50297	CP	%	98			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dinoseb	M22-Ma50297	CP	%	65			30-130	Pass	
Phenol	M22-Ma50297	CP	%	85			30-130	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M22-Ma49882	NCP	%	101			70-130	Pass	
Cyanide (total)	M22-Ma50297	CP	%	82			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M22-Ma50297	CP	%	126			75-125	Fail	Q08
Cadmium	M22-Ma50297	CP	%	112			75-125	Pass	
Lead	M22-Ma50297	CP	%	123			75-125	Pass	
Mercury	M22-Ma50297	CP	%	116			75-125	Pass	
Molybdenum	M22-Ma50297	CP	%	125			75-125	Pass	
Selenium	M22-Ma50297	CP	%	103			75-125	Pass	
Silver	M22-Ma50297	CP	%	117			75-125	Pass	
Tin	M22-Ma50297	CP	%	120			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M22-Ma50297	CP	%	98			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma50297	CP	%	84			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma50297	CP	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma50297	CP	%	93			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma50297	CP	%	104			50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma50297	CP	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma50297	CP	%	112			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma50297	CP	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma50297	CP	%	102			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma50297	CP	%	94			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma50297	CP	%	98			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M22-Ma50297	CP	%	105			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma50297	CP	%	97			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma50297	CP	%	91			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma50297	CP	%	102			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma50297	CP	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma50297	CP	%	88			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma50297	CP	%	96			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ma50297	CP	%	97			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma50297	CP	%	120			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma50297	CP	%	106			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma50297	CP	%	84			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma50297	CP	%	101			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma50297	CP	%	115			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma50297	CP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma50297	CP	%	119			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma50297	CP	%	106			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma50297	CP	%	108			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma50297	CP	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma50297	CP	%	98			50-150	Pass	
Spike - % Recovery									
				Result 1					
Fluoride (Total)	M22-Ma50305	CP	%	96			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Ma50296	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-Ma50296	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-Ma50296	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-Ma50296	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Ma50296	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-Ma50296	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-Ma50296	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-Ma50296	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.3-Dichloropropane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M22-Ma50296	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	M22-Ma50296	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	M22-Ma50296	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	M22-Ma50296	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	M22-Ma50296	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M22-Ma50296	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	M22-Ma50296	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Indeno(1.2.3-cd)pyrene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M22-Ma49882	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M22-Ma49882	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M22-Ma49882	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M22-Ma49882	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M22-Ma49882	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M22-Ma49882	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M22-Ma49882	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M22-Ma49882	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M22-Ma49882	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M22-Ma49882	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M22-Ma49882	NCP	mg/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Methylphenol (o-Cresol)	M22-Ma49882	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ma49882	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M22-Ma49882	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M22-Ma49882	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M22-Ma49882	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M22-Ma50296	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Fluoride (Total)	M22-Ma61554	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	M22-Ma52992	NCP	pH Units	9.7	9.8	pass	30%	Pass	
% Moisture	M22-Ma49906	NCP	%	17	17	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Ma50296	CP	mg/kg	33	28	16	30%	Pass	
Cadmium	M22-Ma50296	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Ma50296	CP	mg/kg	160	130	20	30%	Pass	
Copper	M22-Ma50296	CP	mg/kg	79	61	26	30%	Pass	
Lead	M22-Ma50296	CP	mg/kg	5.6	< 5	18	30%	Pass	
Mercury	M22-Ma50296	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Ma50296	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Ma50296	CP	mg/kg	240	190	21	30%	Pass	
Selenium	M22-Ma50296	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Ma50296	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Ma50296	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Ma50296	CP	mg/kg	140	110	23	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma50296	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma51018	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma51018	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma51018	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma51018	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Ma50297	CP	mg/kg	17	18	5.0	30%	Pass	
Cadmium	M22-Ma50297	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Ma50297	CP	mg/kg	62	67	7.0	30%	Pass	
Copper	M22-Ma50297	CP	mg/kg	43	48	9.0	30%	Pass	
Lead	M22-Ma50297	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	M22-Ma50297	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Ma50297	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Ma50297	CP	mg/kg	120	140	10	30%	Pass	
Selenium	M22-Ma50297	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Ma50297	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Ma50297	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Ma50297	CP	mg/kg	69	75	9.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M22-Ma50302	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M22-Ma50303	CP	mg/kg	< 1	< 1	<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
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).
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.

Authorised by:

Michael Cassidy	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Joseph Edouard	Senior Analyst-PFAS (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (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.

Agon Environmental Pty Ltd - VIC
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Fullarton
SA 5063

Attention: **David Lawson**

Report **873973-W**
Project name 20220324045208-Eurofin-12
Project ID JC0927
Received Date Mar 24, 2022

Client Sample ID			**SX_OB_20220323_15_38_SR_Rinsate_EUF**	**SX_OB_20220323_15_40_SB_Blank_EUF**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M22-Ma50299**	**M22-Ma50300**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**
Test/Reference	LOR	Unit		
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 (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	101
13C5-PFPeA (surr.)	1	%	91	108
13C5-PFHxA (surr.)	1	%	74	102
13C4-PFHpA (surr.)	1	%	72	101
13C8-PFOA (surr.)	1	%	69	108
13C5-PFNA (surr.)	1	%	38	72
13C6-PFDA (surr.)	1	%	30	64
13C2-PFUnDA (surr.)	1	%	34	95
13C2-PFDoDA (surr.)	1	%	22	98
13C2-PFTeDA (surr.)	1	%	11	92
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	%	22	105
D3-N-MeFOSA (surr.)	1	%	27	72

Client Sample ID			SX_OB_20220323_15_38_SR_Rinsate_EUF	SX_OB_20220323_15_40_SB_Blank_EUF
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**M22-Ma50299**	**M22-Ma50300**
Date Sampled			**Mar 23, 2022**	**Mar 23, 2022**
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
D5-N-EtFOSA (surr.)	1	%	16	71
D7-N-MeFOSE (surr.)	1	%	11	80
D9-N-EtFOSE (surr.)	1	%	12	75
D5-N-EtFOSAA (surr.)	1	%	28	102
D3-N-MeFOSAA (surr.)	1	%	39	80
Perfluoroalkyl sulfonic acids (PFSAs)				
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	%	80	102
18O2-PFHxS (surr.)	1	%	67	96
13C8-PFOS (surr.)	1	%	55	104
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 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	%	65	106
13C2-6:2 FTSA (surr.)	1	%	54	108
13C2-8:2 FTSA (surr.)	1	%	40	96
13C2-10:2 FTSA (surr.)	1	%	21	87
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
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Mar 24, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Mar 24, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Mar 24, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Mar 24, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Mar 24, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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_20220323_08_12_SS_Primary_EUF	Mar 23, 2022	8:12AM	Soil	M22-Ma50296		X	X	X
2	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	Soil	M22-Ma50297		X	X	X
3	SX_OB_20220323_12_23_SS_Primary_EUF	Mar 23, 2022	12:23PM	Soil	M22-Ma50298		X	X	X

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Company Name: Agon Environmental Pty Ltd - VIC
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SA 5063

Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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_20220323_15_38_SR_Rinsate_EUF	Mar 23, 2022	3:38PM	Water	M22-Ma50299			X	
5	SX_OB_20220323_15_40_SB_Blank_EUF	Mar 23, 2022	3:40PM	Water	M22-Ma50300			X	
6	SX_OB_20220323_16_01_SS_Primary_EUF	Mar 23, 2022	4:01PM	Soil	M22-Ma50301		X	X	X
7	SX_OB_20220323_16_02_SS_Duplicate_E	Mar 23, 2022	4:02PM	Soil	M22-Ma50302		X	X	X

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Phone : 0800 856 450
IANZ # 1290

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
Fullarton
SA 5063

Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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									
	UF								
8	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	Soil	M22-Ma50303		X	X	X
9	SX_OB_20220323_23_59_SS_Primary_EUF	Mar 23, 2022	11:59PM	Soil	M22-Ma50304		X	X	X
10	SX_OB_20220324_03_56_SS_Primary_EUF	Mar 24, 2022	3:56AM	Soil	M22-Ma50305		X	X	X
11	SX_OB_20220	Mar 23, 2022	8:12AM	AUS Leachate	M22-Ma50306	X		X	

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Project Name: 20220324045208-Eurofin-12
Project ID: JC0927

Order No.:
Report #: 873973
Phone: 08 8338 1009
Fax:

Received: Mar 24, 2022 12:12 PM
Due: Mar 31, 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)	IWRG 621 WGTP 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									
	323_08_12_SS_Primary_EUF			- pH 5.0					
12	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	AUS Leachate - pH 5.0	M22-Ma50307	X		X	
13	SX_OB_20220323_12_23_SS_Primary_EUF	Mar 23, 2022	12:23PM	AUS Leachate - pH 5.0	M22-Ma50308	X		X	
14	SX_OB_20220323_16_01_SS_Primary_EU	Mar 23, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ma50309	X		X	

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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									
	F								
15	SX_OB_20220323_16_02_SS_Duplicate_EUF	Mar 23, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ma50310	X		X	
16	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	AUS Leachate - pH 5.0	M22-Ma50311	X		X	
17	SX_OB_20220323_23_59_SS_Primary_EUF	Mar 23, 2022	11:59PM	AUS Leachate - pH 5.0	M22-Ma50312	X		X	
18	SX_OB_20220	Mar 24, 2022	3:56AM	AUS Leachate	M22-Ma50313	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									
	324_03_56_SS_Primary_EUF			- pH 5.0					
19	SX_OB_20220323_08_12_SS_Primary_EUF	Mar 23, 2022	8:12AM	AUS Leachate - Reagent Water	M22-Ma50314	X		X	
20	SX_OB_20220323_08_21_SS_Triplicate_EUF	Mar 23, 2022	8:21AM	AUS Leachate - Reagent Water	M22-Ma50315	X		X	
21	SX_OB_20220323_12_23_SS_Primary_EU	Mar 23, 2022	12:23PM	AUS Leachate - Reagent Water	M22-Ma50316	X		X	

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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									
	F								
22	SX_OB_20220323_16_01_SS_Primary_EUF	Mar 23, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ma50317	X		X	
23	SX_OB_20220323_16_02_SS_Duplicate_EUF	Mar 23, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Ma50318	X		X	
24	SX_OB_20220323_19_59_SS_Primary_EUF	Mar 23, 2022	7:59PM	AUS Leachate - Reagent Water	M22-Ma50319	X		X	
25	SX_OB_20220	Mar 23, 2022	11:59PM	AUS Leachate	M22-Ma50320	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									
	323_23_59_SS_Primary_EUF			- Reagent Water					
26	SX_OB_20220324_03_56_SS_Primary_EUF	Mar 24, 2022	3:56AM	AUS Leachate - Reagent Water	M22-Ma50321	X		X	
Test Counts						16	8	26	8

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	92			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	100			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	97			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	97			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	113			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	109			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	122			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	119			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	102			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	121			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	96			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	101			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	106			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	106			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	117			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	94			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	99			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	74			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	114			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	124			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluoropentanoic acid (PFPeA)	M22-Ma45565	NCP	%	78			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma45565	NCP	%	94			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma45565	NCP	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma45565	NCP	%	99			50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma45565	NCP	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma45565	NCP	%	94			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma45565	NCP	%	113			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma45565	NCP	%	120			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma45565	NCP	%	122			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma45565	NCP	%	119			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M22-Ma45565	NCP	%	105			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma45565	NCP	%	112			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma45565	NCP	%	106			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma45565	NCP	%	103			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma45565	NCP	%	116			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-Ma45565	NCP	%	112			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma45565	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ma45565	NCP	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma45565	NCP	%	82			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma45565	NCP	%	120			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma45565	NCP	%	108			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma45565	NCP	%	100			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma45565	NCP	%	98			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma45565	NCP	%	97			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma45565	NCP	%	65			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma45565	NCP	%	112			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma45565	NCP	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma45565	NCP	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma45565	NCP	%	107			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-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma49890	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma49890	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma49890	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).

Authorised by:

Michael Cassidy	Analytical Services Manager
Joseph Edouard	Senior Analyst-PFAS (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.

CHAIN OF CUSTODY RECORD

Eurofins | Environment Testing ABN 50 005 085 521

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

☐ **Brisbane Laboratory** Unit 1 21 Smallwood Place Murarrie QLD 4172 07 3902 4600 EnviroSampleQLD@eurofins.com

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

☑ **Melbourne Laboratory** 6 Monterey Road Dandenong South VIC 3175 03 8564 5000 EnviroSampleVic@eurofins.com

Company	AGON Environmental - Tunnel Spoil Testing	Project №	JC0927	Project Manager	Craig Trimbur
Address	Unit H76, 63-85 Turner St, Port Melbourne VIC 3207	Project Name	WGTP-Tunnel Ref: 20220325043216-Eurofin-13	EDD Format ESdat, EQuIS etc	Esdat
Contact Name	Craig Trimbur David Lawson				
Phone №	+61 400 826 907 (Craig) +61 490 411 004 (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 oter sample recipt documentation.				
Purchase Order					
Quote ID №	Agon WGTP TST				

Sampler(s)	Luke D - EP Risk /Tina B - Agon	
Handed over by	Emma. S.	
Email for Invoice	finance@agonenviro.com.au LabReports.TST@agonenviro.com.au	
Email for Results	LabReports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motherhublabresults1@wgtp.com.au Amrit.Kaur@agile-analytics.com.au	

Analyses — Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to extract SUITE pricing.

Containers — Change container type & size if necessary

Required Turnaround Time (TAT) — Default will be 5 days if not ticked.

♦Surcharge will apply

☐ Overnight (reporting by 9am)♦ ☐ Same day♦ ☐ 1 day♦ ☐ 2 days♦ ☐ 3 days♦ ☑ 5 days (Standard) ☐ Other( )

№	Client Sample ID	Sampled Date/Time dd/mm/yy hh:mm	Matrix Solid (S) Water (W)	Spoil Sample Preparation	Suite WGTP-R1 - TRH/ PAH/ Phenols/ OCP/ PCB/ VOC/ Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb,Hg, Ag, Sn, Mo, Se, Zn)/ Cr6+/ CN/ Total Fluoride/ pH	PFAS Extended Suite - 0.1- 5ug/kg	ASLP PH 5 - PFAS 0.01-0.05 ug/l	ASLP Reagent - PFAS 0.01-0.05ug/l	500mL Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4964, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
1	SX_OB_20220324_16_24_SS_Primary_EUF	24.03.2022/16:24	S	X	X	X	X	X										1	
2	SX_OB_20220324_12_27_SS_Primary_EUF	24.03.2022/12:27	S	X	X	X	X	X										1	
3	SX_OB_20220324_08_18_SS_Primary_EUF	24.03.2022/08:18	S	X	X	X	X	X										1	
4	SX_OB_20220324_08_13_SS_Triplicate_EUF	24.03.2022/08:13	S	X	X	X	X	X										1	
5	SX_OB_20220324_16_25_SS_Duplicate_EUF	24.03.2022/16:25	S	X	X	X	X	X										1	
6	SX_OB_20220324_20_06_SS_Primary_EUF	24.03.2022/20:06	S	X	X	X	X	X										1	
7	SX_OB_20220325_00_16_SS_Primary_EUF	25.03.2022/00:16	S	X	X	X	X	X										1	
8	SX_OB_20220325_04_07_SS_Primary_EUF	25.03.2022/04:07	S	X	X	X	X	X										1	
9																			
10																			
11																			
12																			
13																			
			Total Counts	8	8	8	8	8										8	

Chilled: Temp: 19.4 - 0.2 = 19.2°C

Correction: Final Temp:

Method of Shipment	☑ Courier (#)	☐ Hand Delivered	☐ Postal	Name	Emma Story	Signature		Date	25/03/22	Time	10:22am				
Laboratory Use Only	Received By	Emily G	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature		Date	25/03	Time	2:30pm	Temperature	19.2°C				
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature		Date		Time		Report №					

Eurofins Environment Testing Australia Pty Ltd

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

ES3009_R10 Modified by: Dr R Symons Approved by: G Jackson Approved on: 8 August 2019

Dilloch 874462

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

Attention: **David Lawson**

Report **874462-L**
Project name 20220325043216-Eurofin-13
Project ID JC0927
Received Date Mar 25, 2022

Client Sample ID			SX_OB_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_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-Ma53720	M22-Ma53721	M22-Ma53722	M22-Ma53723
Date Sampled			Mar 24, 2022	Mar 24, 2022	Mar 24, 2022	Mar 24, 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	5.1	5.1	5.2	5.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (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	%	112	148	128	122
13C5-PFPeA (surr.)	1	%	87	119	112	106
13C5-PFHxA (surr.)	1	%	103	139	128	116
13C4-PFHpA (surr.)	1	%	107	147	120	116
13C8-PFOA (surr.)	1	%	97	90	126	131
13C5-PFNA (surr.)	1	%	91	133	100	110
13C6-PFDA (surr.)	1	%	69	102	83	83
13C2-PFUnDA (surr.)	1	%	50	79	75	70
13C2-PFDoDA (surr.)	1	%	36	66	53	63
13C2-PFTeDA (surr.)	1	%	57	116	77	121
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			SX_OB_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_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-Ma53720**	**M22-Ma53721**	**M22-Ma53722**	**M22-Ma53723**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	97	116	126	129
D3-N-MeFOSA (surr.)	1	%	57	84	57	87
D5-N-EtFOSA (surr.)	1	%	53	81	53	85
D7-N-MeFOSE (surr.)	1	%	72	110	91	98
D9-N-EtFOSE (surr.)	1	%	70	103	88	95
D5-N-EtFOSAA (surr.)	1	%	36	44	41	35
D3-N-MeFOSAA (surr.)	1	%	39	60	54	58
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	%	62	29	127	88
18O2-PFHxS (surr.)	1	%	92	124	117	110
13C8-PFOS (surr.)	1	%	93	126	113	117
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	80	141	138	141
13C2-6:2 FTSA (surr.)	1	%	95	103	110	109
13C2-8:2 FTSA (surr.)	1	%	145	139	97	77
13C2-10:2 FTSA (surr.)	1	%	77	120	107	128
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_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_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-Ma53724**	**M22-Ma53725**	**M22-Ma53726**	**M22-Ma53727**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 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	5.1	5.1	5.2	5.1
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	%	119	116	116	90
13C5-PFPeA (surr.)	1	%	109	99	101	102
13C5-PFHxA (surr.)	1	%	111	104	113	82
13C4-PFHpA (surr.)	1	%	110	109	100	95
13C8-PFOA (surr.)	1	%	100	90	109	64
13C5-PFNA (surr.)	1	%	106	103	97	104
13C6-PFDA (surr.)	1	%	76	76	83	78
13C2-PFUnDA (surr.)	1	%	65	58	62	70
13C2-PFDoDA (surr.)	1	%	55	50	54	58
13C2-PFTeDA (surr.)	1	%	118	86	92	20
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	112	114	87
D3-N-MeFOSA (surr.)	1	%	74	74	74	66
D5-N-EtFOSA (surr.)	1	%	73	74	74	63
D7-N-MeFOSE (surr.)	1	%	91	87	83	70
D9-N-EtFOSE (surr.)	1	%	87	84	80	69
D5-N-EtFOSAA (surr.)	1	%	39	44	37	36
D3-N-MeFOSAA (surr.)	1	%	47	55	41	40

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_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-Ma53724**	**M22-Ma53725**	**M22-Ma53726**	**M22-Ma53727**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 2022**
Test/Reference	LOR	Unit				
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	36	114	27
18O2-PFHxS (surr.)	1	%	116	96	114	90
13C8-PFOS (surr.)	1	%	107	100	113	83
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	83	96	136	117
13C2-6:2 FTSA (surr.)	1	%	134	111	90	75
13C2-8:2 FTSA (surr.)	1	%	126	120	136	130
13C2-10:2 FTSA (surr.)	1	%	111	91	101	85
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_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**M22-Ma53728**	**M22-Ma53729**	**M22-Ma53730**	**M22-Ma53731**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 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	6.9	6.9	6.9	6.9
pH (off)	0.1	pH Units	8.9	9.0	9.0	9.3

Client Sample ID			SX_OB_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ma53728	M22-Ma53729	M22-Ma53730	M22-Ma53731
Date Sampled			Mar 24, 2022	Mar 24, 2022	Mar 24, 2022	Mar 24, 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	%	88	89	90	127
13C5-PFPeA (surr.)	1	%	95	100	110	106
13C5-PFHxA (surr.)	1	%	84	82	89	134
13C4-PFHpA (surr.)	1	%	86	92	87	139
13C8-PFOA (surr.)	1	%	68	59	91	140
13C5-PFNA (surr.)	1	%	101	106	91	114
13C6-PFDA (surr.)	1	%	77	95	72	106
13C2-PFUnDA (surr.)	1	%	70	88	74	87
13C2-PFDoDA (surr.)	1	%	66	69	62	78
13C2-PFTeDA (surr.)	1	%	20	17	20	129
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	%	83	84	78	134
D3-N-MeFOSA (surr.)	1	%	46	42	52	78
D5-N-EtFOSA (surr.)	1	%	40	36	45	63
D7-N-MeFOSE (surr.)	1	%	55	54	56	87
D9-N-EtFOSE (surr.)	1	%	54	54	55	85
D5-N-EtFOSAA (surr.)	1	%	40	53	43	67
D3-N-MeFOSAA (surr.)	1	%	40	49	41	94
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_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ma53728	M22-Ma53729	M22-Ma53730	M22-Ma53731
Date Sampled			Mar 24, 2022	Mar 24, 2022	Mar 24, 2022	Mar 24, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	53	25	101	123
18O2-PFHxS (surr.)	1	%	87	89	91	126
13C8-PFOS (surr.)	1	%	92	102	82	129
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	107	122	77	99
13C2-6:2 FTSA (surr.)	1	%	59	100	55	130
13C2-8:2 FTSA (surr.)	1	%	82	91	144	107
13C2-10:2 FTSA (surr.)	1	%	71	95	71	150
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_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_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-Ma53732	M22-Ma53733	M22-Ma53734	M22-Ma53735
Date Sampled			Mar 24, 2022	Mar 24, 2022	Mar 25, 2022	Mar 25, 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	6.9	6.9	6.9	6.9
pH (off)	0.1	pH Units	9.1	9.0	9.2	9.2
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_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_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-Ma53732**	**M22-Ma53733**	**M22-Ma53734**	**M22-Ma53735**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 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	%	143	126	111	87
13C5-PFPeA (surr.)	1	%	118	100	90	85
13C5-PFHxA (surr.)	1	%	138	119	88	79
13C4-PFHpA (surr.)	1	%	139	133	84	89
13C8-PFOA (surr.)	1	%	108	89	76	59
13C5-PFNA (surr.)	1	%	128	120	69	94
13C6-PFDA (surr.)	1	%	109	110	64	77
13C2-PFUnDA (surr.)	1	%	96	97	71	66
13C2-PFDoDA (surr.)	1	%	77	78	72	55
13C2-PFTeDA (surr.)	1	%	107	147	55	16
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	%	142	132	68	80
D3-N-MeFOSA (surr.)	1	%	69	76	81	39
D5-N-EtFOSA (surr.)	1	%	59	73	73	34
D7-N-MeFOSE (surr.)	1	%	83	89	141	48
D9-N-EtFOSE (surr.)	1	%	81	90	141	45
D5-N-EtFOSAA (surr.)	1	%	75	80	30	45
D3-N-MeFOSAA (surr.)	1	%	93	108	29	43
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	%	75	32	92	28
18O2-PFHxS (surr.)	1	%	121	114	94	86
13C8-PFOS (surr.)	1	%	137	134	67	83

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_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-Ma53732**	**M22-Ma53733**	**M22-Ma53734**	**M22-Ma53735**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
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	%	105	108	104	116
13C2-6:2 FTSA (surr.)	1	%	127	140	64	70
13C2-8:2 FTSA (surr.)	1	%	135	131	99	149
13C2-10:2 FTSA (surr.)	1	%	121	148	71	82
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
AUS Leaching Procedure			
pH (initial)	Melbourne	Mar 28, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (Leachate fluid)	Melbourne	Mar 28, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (off)	Melbourne	Mar 28, 2022	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Mar 25, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: 20220325043216-Eurofin-13
Project ID: JC0927

Order No.:
Report #: 874462
Phone: 08 8338 1009
Fax:

Received: Mar 25, 2022 2:30 PM
Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220324_16_24_SS_Primary_EUF	Mar 24, 2022	4:24PM	Soil	M22-Ma53712		X	X	X
2	SX_OB_20220324_12_27_SS_Primary_EUF	Mar 24, 2022	12:27PM	Soil	M22-Ma53713		X	X	X
3	SX_OB_20220324_08_18_SS_Primary_EUF	Mar 24, 2022	8:18AM	Soil	M22-Ma53714		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220324_08_13_SS_Triplicate_EUF	Mar 24, 2022	8:13AM	Soil	M22-Ma53715		X	X	X
5	SX_OB_20220324_16_25_SS_Duplicate_EUF	Mar 24, 2022	4:25PM	Soil	M22-Ma53716		X	X	X
6	SX_OB_20220324_20_06_SS_Primary_EUF	Mar 24, 2022	8:05PM	Soil	M22-Ma53717		X	X	X
7	SX_OB_20220325_00_16_S	Mar 25, 2022	12:16AM	Soil	M22-Ma53718		X	X	X

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Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_EUF								
8	SX_OB_20220325_04_07_SS_Primary_EUF	Mar 25, 2022	4:07PM	Soil	M22-Ma53719		X	X	X
9	SX_OB_20220324_16_24_SS_Primary_EUF	Mar 24, 2022	4:24PM	AUS Leachate - pH 5.0	M22-Ma53720	X		X	
10	SX_OB_20220324_12_27_SS_Primary_EUF	Mar 24, 2022	12:27PM	AUS Leachate - pH 5.0	M22-Ma53721	X		X	

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Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
11	SX_OB_20220324_08_18_SS_Primary_EUF	Mar 24, 2022	8:18AM	AUS Leachate - pH 5.0	M22-Ma53722	X		X	
12	SX_OB_20220324_08_13_SS_Triplicate_EUF	Mar 24, 2022	8:13AM	AUS Leachate - pH 5.0	M22-Ma53723	X		X	
13	SX_OB_20220324_16_25_SS_Duplicate_EUF	Mar 24, 2022	4:25PM	AUS Leachate - pH 5.0	M22-Ma53724	X		X	
14	SX_OB_20220324_20_06_S	Mar 24, 2022	8:05PM	AUS Leachate - pH 5.0	M22-Ma53725	X		X	

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Fax:

Received: Mar 25, 2022 2:30 PM
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Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_EUF								
15	SX_OB_20220325_00_16_SS_Primary_EUF	Mar 25, 2022	12:16AM	AUS Leachate - pH 5.0	M22-Ma53726	X		X	
16	SX_OB_20220325_04_07_SS_Primary_EUF	Mar 25, 2022	4:07PM	AUS Leachate - pH 5.0	M22-Ma53727	X		X	
17	SX_OB_20220324_16_24_SS_Primary_EUF	Mar 24, 2022	4:24PM	AUS Leachate - Reagent Water	M22-Ma53728	X		X	

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Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
18	SX_OB_20220324_12_27_SS_Primary_EUF	Mar 24, 2022	12:27PM	AUS Leachate - Reagent Water	M22-Ma53729	X		X	
19	SX_OB_20220324_08_18_SS_Primary_EUF	Mar 24, 2022	8:18AM	AUS Leachate - Reagent Water	M22-Ma53730	X		X	
20	SX_OB_20220324_08_13_SS_Triplicate_EUF	Mar 24, 2022	8:13AM	AUS Leachate - Reagent Water	M22-Ma53731	X		X	
21	SX_OB_20220324_16_25_S	Mar 24, 2022	4:25PM	AUS Leachate - Reagent	M22-Ma53732	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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					
22	SX_OB_20220324_20_06_SS_Primary_EUF	Mar 24, 2022	8:05PM	AUS Leachate - Reagent Water	M22-Ma53733	X		X	
23	SX_OB_20220325_00_16_SS_Primary_EUF	Mar 25, 2022	12:16AM	AUS Leachate - Reagent Water	M22-Ma53734	X		X	
24	SX_OB_20220325_04_07_SS_Primary_EUF	Mar 25, 2022	4:07PM	AUS Leachate - Reagent Water	M22-Ma53735	X		X	

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Sample Detail	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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	16	8	24	8

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	115			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	96			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	116			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	95			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	101			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	94			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	104			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	97			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	108			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	100			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)	%	100			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	115			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	83			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	87			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	107			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	101			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	100			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	105			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	88			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	90			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-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma53725	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-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma53725	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma53725	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma53729	CP	ug/L	< 0.01	0.01	30	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma53729	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma53729	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma53729	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	N/A
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.

Agon Environmental Pty Ltd - VIC
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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 **874462-S**
Project name 20220325043216-Eurofin-13
Project ID JC0927
Received Date Mar 25, 2022

Client Sample ID			**SX_OB_20220324_16_24_SS_Primary_EUF**	**SX_OB_20220324_12_27_SS_Primary_EUF**	**SX_OB_20220324_08_18_SS_Primary_EUF**	**SX_OB_20220324_08_13_SS_Triplicate_EUF**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53712**	**M22-Ma53713**	**M22-Ma53714**	**M22-Ma53715**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 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_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53712**	**M22-Ma53713**	**M22-Ma53714**	**M22-Ma53715**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 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	%	68	64	68	66
Toluene-d8 (surr.)	1	%	57	64	69	69
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_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53712**	**M22-Ma53713**	**M22-Ma53714**	**M22-Ma53715**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 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	%	133	139	135	127
p-Terphenyl-d14 (surr.)	1	%	72	68	70	68
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	%	135	111	116	99
Tetrachloro-m-xylene (surr.)	1	%	65	67	71	65

Client Sample ID			SX_OB_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53712**	**M22-Ma53713**	**M22-Ma53714**	**M22-Ma53715**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 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
Dibutylchlorendate (surr.)	1	%	135	111	116	99
Tetrachloro-m-xylene (surr.)	1	%	65	67	71	65
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	%	40	44	38	34
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)	1	mg/kg	1.0	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.4	8.7	8.3	9.1
% Moisture	1	%	24	27	28	28
Heavy Metals						
Arsenic	2	mg/kg	31	35	25	36
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	140	120	130
Copper	5	mg/kg	70	71	57	65
Lead	5	mg/kg	5.1	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53712**	**M22-Ma53713**	**M22-Ma53714**	**M22-Ma53715**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	250	220	170	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	120	130	120	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	%	119	119	119	118
13C5-PFPeA (surr.)	1	%	77	63	75	74
13C5-PFHxA (surr.)	1	%	77	70	82	78
13C4-PFHpA (surr.)	1	%	72	74	78	73
13C8-PFOA (surr.)	1	%	77	72	76	65
13C5-PFNA (surr.)	1	%	81	81	74	71
13C6-PFDA (surr.)	1	%	62	66	63	58
13C2-PFUnDA (surr.)	1	%	89	86	89	86
13C2-PFDoDA (surr.)	1	%	89	85	84	84
13C2-PFTeDA (surr.)	1	%	97	91	91	82
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	%	98	92	92	93
D3-N-MeFOSA (surr.)	1	%	74	80	83	77
D5-N-EtFOSA (surr.)	1	%	86	85	81	81
D7-N-MeFOSE (surr.)	1	%	74	75	72	71
D9-N-EtFOSE (surr.)	1	%	62	63	60	59
D5-N-EtFOSAA (surr.)	1	%	91	97	89	96
D3-N-MeFOSAA (surr.)	1	%	71	99	81	90

Client Sample ID			SX_OB_20220324_16_24_SS_Primary_EUF	SX_OB_20220324_12_27_SS_Primary_EUF	SX_OB_20220324_08_18_SS_Primary_EUF	SX_OB_20220324_08_13_SS_Triplicate_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53712**	**M22-Ma53713**	**M22-Ma53714**	**M22-Ma53715**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**	**Mar 24, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
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	%	89	75	94	85
18O2-PFHxS (surr.)	1	%	91	84	82	85
13C8-PFOS (surr.)	1	%	62	76	78	55
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	130	133	90	114
13C2-6:2 FTSA (surr.)	1	%	66	75	85	78
13C2-8:2 FTSA (surr.)	1	%	102	94	98	84
13C2-10:2 FTSA (surr.)	1	%	102	95	93	86
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_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 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

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 2022**
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	73	62	67	69
Toluene-d8 (surr.)	1	%	72	62	64	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
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	%	136	111	83	85
p-Terphenyl-d14 (surr.)	1	%	71	61	63	62

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 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	%	102	76	94	110
Tetrachloro-m-xylene (surr.)	1	%	68	93	55	60
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	%	102	76	94	110
Tetrachloro-m-xylene (surr.)	1	%	68	93	55	60
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_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 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	42	36	46
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	< 100	< 100	530	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.4	8.3	8.7	8.2
% Moisture	1	%	25	31	28	27
Heavy Metals						
Arsenic	2	mg/kg	29	62	46	32
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	130	140	140	120
Copper	5	mg/kg	61	85	61	59
Lead	5	mg/kg	< 5	6.0	< 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	240	180	190
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	120	150	130	110
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	%	119	119	121	122
13C5-PFPeA (surr.)	1	%	70	74	78	73
13C5-PFHxA (surr.)	1	%	72	72	80	72

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 2022**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	73	76	82	76
13C8-PFOA (surr.)	1	%	75	65	78	70
13C5-PFNA (surr.)	1	%	69	69	75	71
13C6-PFDA (surr.)	1	%	69	64	59	54
13C2-PFUnDA (surr.)	1	%	88	90	82	88
13C2-PFDoDA (surr.)	1	%	81	74	82	83
13C2-PFTeDA (surr.)	1	%	88	88	81	85
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	%	97	92	98	95
D3-N-MeFOSA (surr.)	1	%	81	79	79	76
D5-N-EtFOSA (surr.)	1	%	83	83	85	83
D7-N-MeFOSE (surr.)	1	%	76	76	71	70
D9-N-EtFOSE (surr.)	1	%	59	59	59	62
D5-N-EtFOSAA (surr.)	1	%	83	81	89	95
D3-N-MeFOSAA (surr.)	1	%	88	79	90	85
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
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	%	89	83	91	82
18O2-PFHxS (surr.)	1	%	90	91	84	104
13C8-PFOS (surr.)	1	%	71	71	55	74
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	126	124	118	126
13C2-6:2 FTSA (surr.)	1	%	70	78	76	81

Client Sample ID			SX_OB_20220324_16_25_SS_Duplicate_EUF	SX_OB_20220324_20_06_SS_Primary_EUF	SX_OB_20220325_00_16_SS_Primary_EUF	SX_OB_20220325_04_07_SS_Primary_EUF
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M22-Ma53716**	**M22-Ma53717**	**M22-Ma53718**	**M22-Ma53719**
Date Sampled			**Mar 24, 2022**	**Mar 24, 2022**	**Mar 25, 2022**	**Mar 25, 2022**
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-8:2 FTSA (surr.)	1	%	89	103	96	98
13C2-10:2 FTSA (surr.)	1	%	108	96	101	99
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

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	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Melbourne	Mar 28, 2022	7 Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
Volatile Organics	Melbourne	Mar 28, 2022	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Polycyclic Aromatic Hydrocarbons	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Mar 28, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Chromium (hexavalent)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection			
Cyanide (total)	Melbourne	Mar 29, 2022	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride (Total)	Melbourne	Mar 29, 2022	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			
- Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Mar 28, 2022	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Metals IWRG 621 : Metals M12	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
- Method:			
% Moisture	Melbourne	Mar 25, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Mar 28, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Mar 25, 2022	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: 20220325043216-Eurofin-13
Project ID: JC0927

Order No.:
Report #: 874462
Phone: 08 8338 1009
Fax:

Received: Mar 25, 2022 2:30 PM
Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220324_16_24_SS_Primary_EUF	Mar 24, 2022	4:24PM	Soil	M22-Ma53712		X	X	X
2	SX_OB_20220324_12_27_SS_Primary_EUF	Mar 24, 2022	12:27PM	Soil	M22-Ma53713		X	X	X
3	SX_OB_20220324_08_18_SS_Primary_EUF	Mar 24, 2022	8:18AM	Soil	M22-Ma53714		X	X	X

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Received: Mar 25, 2022 2:30 PM
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Priority: 5 Day
Contact Name: David Lawson

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_20220324_08_13_SS_Triplicate_EUF	Mar 24, 2022	8:13AM	Soil	M22-Ma53715		X	X	X
5	SX_OB_20220324_16_25_SS_Duplicate_EUF	Mar 24, 2022	4:25PM	Soil	M22-Ma53716		X	X	X
6	SX_OB_20220324_20_06_SS_Primary_EUF	Mar 24, 2022	8:05PM	Soil	M22-Ma53717		X	X	X
7	SX_OB_20220325_00_16_S	Mar 25, 2022	12:16AM	Soil	M22-Ma53718		X	X	X

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Received: Mar 25, 2022 2:30 PM
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Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_EUF								
8	SX_OB_20220325_04_07_SS_Primary_EUF	Mar 25, 2022	4:07PM	Soil	M22-Ma53719		X	X	X
9	SX_OB_20220324_16_24_SS_Primary_EUF	Mar 24, 2022	4:24PM	AUS Leachate - pH 5.0	M22-Ma53720	X		X	
10	SX_OB_20220324_12_27_SS_Primary_EUF	Mar 24, 2022	12:27PM	AUS Leachate - pH 5.0	M22-Ma53721	X		X	

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Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
11	SX_OB_20220324_08_18_SS_Primary_EUF	Mar 24, 2022	8:18AM	AUS Leachate - pH 5.0	M22-Ma53722	X		X	
12	SX_OB_20220324_08_13_SS_Triplicate_EUF	Mar 24, 2022	8:13AM	AUS Leachate - pH 5.0	M22-Ma53723	X		X	
13	SX_OB_20220324_16_25_SS_Duplicate_EUF	Mar 24, 2022	4:25PM	AUS Leachate - pH 5.0	M22-Ma53724	X		X	
14	SX_OB_20220324_20_06_S	Mar 24, 2022	8:05PM	AUS Leachate - pH 5.0	M22-Ma53725	X		X	

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Received: Mar 25, 2022 2:30 PM
Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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_EUF								
15	SX_OB_20220325_00_16_SS_Primary_EUF	Mar 25, 2022	12:16AM	AUS Leachate - pH 5.0	M22-Ma53726	X		X	
16	SX_OB_20220325_04_07_SS_Primary_EUF	Mar 25, 2022	4:07PM	AUS Leachate - pH 5.0	M22-Ma53727	X		X	
17	SX_OB_20220324_16_24_SS_Primary_EUF	Mar 24, 2022	4:24PM	AUS Leachate - Reagent Water	M22-Ma53728	X		X	

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Project Name: 20220325043216-Eurofin-13
Project ID: JC0927

Order No.:
Report #: 874462
Phone: 08 8338 1009
Fax:

Received: Mar 25, 2022 2:30 PM
Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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									
18	SX_OB_20220324_12_27_SS_Primary_EUF	Mar 24, 2022	12:27PM	AUS Leachate - Reagent Water	M22-Ma53729	X		X	
19	SX_OB_20220324_08_18_SS_Primary_EUF	Mar 24, 2022	8:18AM	AUS Leachate - Reagent Water	M22-Ma53730	X		X	
20	SX_OB_20220324_08_13_SS_Triplicate_EUF	Mar 24, 2022	8:13AM	AUS Leachate - Reagent Water	M22-Ma53731	X		X	
21	SX_OB_20220324_16_25_S	Mar 24, 2022	4:25PM	AUS Leachate - Reagent	M22-Ma53732	X		X	

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Project Name: 20220325043216-Eurofin-13
Project ID: JC0927

Order No.:
Report #: 874462
Phone: 08 8338 1009
Fax:

Received: Mar 25, 2022 2:30 PM
Due: Apr 1, 2022
Priority: 5 Day
Contact Name: David Lawson

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WGTP 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					
22	SX_OB_20220324_20_06_SS_Primary_EUF	Mar 24, 2022	8:05PM	AUS Leachate - Reagent Water	M22-Ma53733	X		X	
23	SX_OB_20220325_00_16_SS_Primary_EUF	Mar 25, 2022	12:16AM	AUS Leachate - Reagent Water	M22-Ma53734	X		X	
24	SX_OB_20220325_04_07_SS_Primary_EUF	Mar 25, 2022	4:07PM	AUS Leachate - Reagent Water	M22-Ma53735	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				
Test Counts	16	8	24	8

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

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QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
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 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	125			70-130	Pass	
Naphthalene	%	119			70-130	Pass	
TRH C6-C10	%	96			70-130	Pass	
TRH >C10-C16	%	130			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	84			70-130	Pass	
1.1.1-Trichloroethane	%	90			70-130	Pass	
1.2-Dichloroethane	%	96			70-130	Pass	
Benzene	%	103			70-130	Pass	
Ethylbenzene	%	123			70-130	Pass	
m&p-Xylenes	%	115			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	%	112			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
Xylenes - Total*	%	115			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	89			70-130	Pass	
Acenaphthylene	%	112			70-130	Pass	
Anthracene	%	98			70-130	Pass	
Benz(a)anthracene	%	83			70-130	Pass	
Benzo(a)pyrene	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	%	89			70-130	Pass	
Benzo(g.h.i)perylene	%	87			70-130	Pass	
Benzo(k)fluoranthene	%	93			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	80			70-130	Pass	
Fluoranthene	%	83			70-130	Pass	
Fluorene	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
Phenanthrene	%	95			70-130	Pass	
Pyrene	%	84			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	88			70-130	Pass	
4.4'-DDD	%	99			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	99			70-130	Pass	
a-HCH	%	127			70-130	Pass	
Aldrin	%	84			70-130	Pass	
b-HCH	%	99			70-130	Pass	
d-HCH	%	99			70-130	Pass	
Dieldrin	%	86			70-130	Pass	
Endosulfan I	%	92			70-130	Pass	
Endosulfan II	%	87			70-130	Pass	
Endosulfan sulphate	%	95			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	123			70-130	Pass	
Endrin ketone	%	84			70-130	Pass	
g-HCH (Lindane)	%	110			70-130	Pass	
Heptachlor	%	105			70-130	Pass	
Heptachlor epoxide	%	91			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	109			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	123			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	72			25-140	Pass	
2.4-Dichlorophenol	%	106			25-140	Pass	
2.4.5-Trichlorophenol	%	97			25-140	Pass	
2.4.6-Trichlorophenol	%	88			25-140	Pass	
2.6-Dichlorophenol	%	49			25-140	Pass	
4-Chloro-3-methylphenol	%	87			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pentachlorophenol	%	77			25-140	Pass	
Tetrachlorophenols - Total	%	48			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	88			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	90			25-140	Pass	
2-Nitrophenol	%	101			25-140	Pass	
2.4-Dimethylphenol	%	70			25-140	Pass	
2.4-Dinitrophenol	%	127			25-140	Pass	
2-Methylphenol (o-Cresol)	%	100			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	105			25-140	Pass	
4-Nitrophenol	%	83			25-140	Pass	
Dinoseb	%	101			25-140	Pass	
Phenol	%	98			25-140	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	102			70-130	Pass	
Cyanide (total)	%	102			70-130	Pass	
Fluoride (Total)	%	82			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	87			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	86			80-120	Pass	
Copper	%	89			80-120	Pass	
Lead	%	101			80-120	Pass	
Mercury	%	104			80-120	Pass	
Molybdenum	%	87			80-120	Pass	
Nickel	%	80			80-120	Pass	
Selenium	%	90			80-120	Pass	
Silver	%	104			80-120	Pass	
Tin	%	91			80-120	Pass	
Zinc	%	102			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	97			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	74			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	75			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	74			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	91			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	70			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	67			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	65			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	69			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	64			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	73			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	71			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	68			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	71			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	78			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	79			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	56			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	57			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)									
Perfluorobutanesulfonic acid (PFBS)			%	65			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	97			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	66			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	79			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	77			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	103			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)			%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	84			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	87			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 C10-C14	M22-Ma56394	NCP	%	125			70-130	Pass	
TRH >C10-C16	M22-Ma56394	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M22-Ma53249	NCP	%	87			70-130	Pass	
1.1.1-Trichloroethane	M22-Ma53249	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M22-Ma53305	NCP	%	72			70-130	Pass	
Acenaphthylene	M22-Ma53305	NCP	%	82			70-130	Pass	
Anthracene	M22-Ma53305	NCP	%	82			70-130	Pass	
Benz(a)anthracene	M22-Ma53305	NCP	%	73			70-130	Pass	
Benzo(a)pyrene	M22-Ma53305	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	M22-Ma53305	NCP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	M22-Ma53305	NCP	%	83			70-130	Pass	
Benzo(k)fluoranthene	M22-Ma53305	NCP	%	126			70-130	Pass	
Chrysene	M22-Ma53305	NCP	%	76			70-130	Pass	
Dibenz(a.h)anthracene	M22-Ma53305	NCP	%	86			70-130	Pass	
Fluoranthene	M22-Ma53305	NCP	%	97			70-130	Pass	
Fluorene	M22-Ma53305	NCP	%	82			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M22-Ma53305	NCP	%	82			70-130	Pass	
Naphthalene	M22-Ma53305	NCP	%	75			70-130	Pass	
Phenanthrene	M22-Ma53305	NCP	%	86			70-130	Pass	
Pyrene	M22-Ma53305	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M22-Ma52913	NCP	%	127			30-130	Pass	
2.4-Dichlorophenol	M22-Ma53305	NCP	%	65			30-130	Pass	
2.4.5-Trichlorophenol	M22-Ma53305	NCP	%	58			30-130	Pass	
2.4.6-Trichlorophenol	M22-Ma53305	NCP	%	57			30-130	Pass	
2.6-Dichlorophenol	M22-Ma53305	NCP	%	60			30-130	Pass	
4-Chloro-3-methylphenol	M22-Ma52913	NCP	%	54			30-130	Pass	
Pentachlorophenol	M22-Ma52913	NCP	%	63			30-130	Pass	
Tetrachlorophenols - Total	M22-Ma53305	NCP	%	48			30-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M22-Ma47802	NCP	%	100			30-130	Pass	
2-Methyl-4.6-dinitrophenol	M22-Ma47802	NCP	%	66			30-130	Pass	
2-Nitrophenol	M22-Ma53305	NCP	%	64			30-130	Pass	
2.4-Dimethylphenol	M22-Ma53305	NCP	%	74			30-130	Pass	
2.4-Dinitrophenol	M22-Ma47802	NCP	%	57			30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Ma53305	NCP	%	53			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ma53305	NCP	%	66			30-130	Pass	
4-Nitrophenol	M22-Ma52913	NCP	%	34			30-130	Pass	
Dinoseb	M22-Ma53305	NCP	%	30			30-130	Pass	
Phenol	M22-Ma52913	NCP	%	116			30-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M22-Ma55702	NCP	%	110			75-125	Pass	
Cadmium	M22-Ma55702	NCP	%	104			75-125	Pass	
Chromium	M22-Ma55702	NCP	%	104			75-125	Pass	
Copper	M22-Ma55702	NCP	%	114			75-125	Pass	
Lead	M22-Ma60390	NCP	%	101			75-125	Pass	
Mercury	M22-Ma55702	NCP	%	124			75-125	Pass	
Molybdenum	M22-Ma55702	NCP	%	109			75-125	Pass	
Nickel	M22-Ma55702	NCP	%	104			75-125	Pass	
Selenium	M22-Ma55702	NCP	%	107			75-125	Pass	
Silver	M22-Ma55702	NCP	%	110			75-125	Pass	
Tin	M22-Ma55702	NCP	%	99			75-125	Pass	
Zinc	M22-Ma55702	NCP	%	93			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M22-Ma53712	CP	%	89			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma53712	CP	%	95			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma53712	CP	%	89			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma53712	CP	%	81			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma53712	CP	%	102			50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma53712	CP	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma53712	CP	%	94			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma53712	CP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma53712	CP	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma53712	CP	%	67			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma53712	CP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M22-Ma53712	CP	%	89			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma53712	CP	%	90			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma53712	CP	%	92			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma53712	CP	%	105			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma53712	CP	%	113			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma53712	CP	%	71			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma53712	CP	%	79			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M22-Ma53712	CP	%	81			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma53712	CP	%	123			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma53712	CP	%	117			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma53712	CP	%	100			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma53712	CP	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma53712	CP	%	83			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma53712	CP	%	76			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma53712	CP	%	127			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma53712	CP	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma53712	CP	%	118			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma53712	CP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma53712	CP	%	103			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M22-Ma53713	CP	%	82			70-130	Pass	
Naphthalene	M22-Ma53713	CP	%	101			70-130	Pass	
TRH C6-C10	M22-Ma53713	CP	%	81			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.2-Dichloroethane	M22-Ma53713	CP	%	70			70-130	Pass	
Benzene	M22-Ma53713	CP	%	75			70-130	Pass	
Ethylbenzene	M22-Ma53713	CP	%	95			70-130	Pass	
m&p-Xylenes	M22-Ma53713	CP	%	98			70-130	Pass	
o-Xylene	M22-Ma53713	CP	%	101			70-130	Pass	
Toluene	M22-Ma53713	CP	%	87			70-130	Pass	
Trichloroethene	M22-Ma53713	CP	%	83			70-130	Pass	
Xylenes - Total*	M22-Ma53713	CP	%	99			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M22-Ma53713	CP	%	97			70-130	Pass	
4.4'-DDD	M22-Ma53713	CP	%	88			70-130	Pass	
4.4'-DDE	M22-Ma53713	CP	%	101			70-130	Pass	
4.4'-DDT	M22-Ma53713	CP	%	76			70-130	Pass	
a-HCH	M22-Ma53713	CP	%	91			70-130	Pass	
Aldrin	M22-Ma53713	CP	%	93			70-130	Pass	
b-HCH	M22-Ma53713	CP	%	123			70-130	Pass	
d-HCH	M22-Ma53713	CP	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dieldrin	M22-Ma53713	CP	%	97			70-130	Pass	
Endosulfan I	M22-Ma53713	CP	%	103			70-130	Pass	
Endosulfan II	M22-Ma53713	CP	%	89			70-130	Pass	
Endosulfan sulphate	M22-Ma53713	CP	%	88			70-130	Pass	
Endrin	M22-Ma53713	CP	%	96			70-130	Pass	
Endrin aldehyde	M22-Ma53713	CP	%	88			70-130	Pass	
Endrin ketone	M22-Ma53713	CP	%	96			70-130	Pass	
g-HCH (Lindane)	M22-Ma53713	CP	%	107			70-130	Pass	
Heptachlor	M22-Ma53713	CP	%	88			70-130	Pass	
Heptachlor epoxide	M22-Ma53713	CP	%	100			70-130	Pass	
Hexachlorobenzene	M22-Ma53713	CP	%	103			70-130	Pass	
Methoxychlor	M22-Ma53713	CP	%	73			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M22-Ma53713	CP	%	101			70-130	Pass	
Aroclor-1260	M22-Ma53713	CP	%	105			70-130	Pass	
Spike - % Recovery									
				Result 1					
Cyanide (total)	M22-Ma53713	CP	%	120			70-130	Pass	
Spike - % Recovery									
				Result 1					
Fluoride (Total)	M22-Ma53719	CP	%	87			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M22-Ma53712	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-Ma53712	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-Ma53712	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-Ma53712	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Ma53712	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-Ma53712	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-Ma53712	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-Ma53712	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.3.5-Trimethylbenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	M22-Ma53712	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	M22-Ma53712	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Naphthalene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M22-Ma53712	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	M22-Ma53712	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	M22-Ma53712	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	M22-Ma53712	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	M22-Ma53712	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	M22-Ma53712	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	M22-Ma53712	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	M22-Ma53712	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	M22-Ma53712	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	M22-Ma53712	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M22-Ma53712	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
3&4-Methylphenol (m&p-Cresol)	M22-Ma53712	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	M22-Ma53712	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	M22-Ma53712	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	M22-Ma53712	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Cyanide (total)	M22-Ma53712	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Fluoride (Total)	M22-Ma56138	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
% Moisture	M22-Ma53712	CP	%	24	26	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M22-Ma53712	CP	mg/kg	31	20	42	30%	Fail	Q15
Cadmium	M22-Ma53712	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M22-Ma53712	CP	mg/kg	140	110	18	30%	Pass	
Copper	M22-Ma53712	CP	mg/kg	70	53	27	30%	Pass	
Lead	M22-Ma53712	CP	mg/kg	5.1	< 5	32	30%	Fail	Q15
Mercury	M22-Ma53712	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M22-Ma53712	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M22-Ma53712	CP	mg/kg	250	190	28	30%	Pass	
Selenium	M22-Ma53712	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M22-Ma53712	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M22-Ma53712	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M22-Ma53712	CP	mg/kg	120	97	25	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma55405	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma55405	NCP	ug/kg	< 10	< 10	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma55405	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma55405	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chromium (hexavalent)	M22-Ma53714	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	M22-Ma53715	CP	pH Units	9.1	9.1	pass	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
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
Joseph Edouard	Senior Analyst (VIC)
Edward Lee	Senior Analyst (VIC)
Scott Beddoes	Senior Analyst (NSW)
Linda Chouman	Senior Analyst (NSW)
Mary Makarios	Senior Analyst (NSW)
Caitlin Breeze	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.

ALS Melbourne: 4 Westall Rd, Springvale, VIC 3171 Phone (03) 8549 9600; Facsimile (03) 8549 9601. Email Samples.Melbourne@alsenviro.com

CHAIN OF CUSTODY DOCUMENTATION

Australian Laboratory Services Pty Ltd

CLIENT: Agon Evironmental
ADDRESS / OFFICE: Melbourne
PROJECT MANAGER (PM): Craig Trimbur
PROJECT ID: JC0927
SITE: 20220324042237-ALS-12 P.O. NO.:
RESULTS REQUIRED (Date): 5 days QUOTE NO.: ME-150-19 WGTP

SAMPLER: Emma.S - EP Risk & Toby.G - Agon
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@esdat.com.au motherhublabresults1@wgtp.com.au Amrit.Kaur@agile-analytics.com.au
EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

FOR LABORATORY USE ONLY
COOLER SEAL INTACT (if applicable)
Yes No N/A
SAMPLES RECEIVED HOT
Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE INFORMATION (note: S = Soil, W=Water)				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						
9 1	SX_OB_20220323_08_17_SS_Primary_ALS	S	23/03/2022	08:17	Bucket	1	x	x	x	x	x	
10 2	SX_OB_20220323_08_19_SS_Duplicate_ALS	S	23/03/2022	08:19	Bucket	1	x	x	x	x	x	
11 3	SX_OB_20220323_12_17_SS_Primary_ALS	S	23/03/2022	12:17	Bucket	1	x	x	x	x	x	
12 4	SX_OB_20220323_16_04_SS_Triplicate_ALS	S	23/03/2022	16:04	Bucket	1	x	x	x	x	x	
13 5	SX_OB_20220323_16_11_SS_Primary_ALS	S	23/03/2022	16:11	Bucket	1	x	x	x	x	x	
14 6	SX_OB_20220323_20_07_SS_Primary_ALS	S	23/03/2022	20:07	Bucket	1	x	x	x	x	x	
15 7	SX_OB_20220324_00_04_SS_Primary_ALS	S	24/03/2022	00:04	Bucket	1	x	x	x	x	x	
16 8	SX_OB_20220324_04_00_SS_Primary_ALS	S	24/03/2022	04:00	Bucket	1	x	x	x	x	x	

Environmental Division
Melbourne
Work Order Reference
EM2205177

Telephone : - 61-3-8549 9600

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: LUKE DALLAGO	Date: 24/3/22	Name: Kirsti JACKSON	Date: 24/3/22	Con' Note No:
Of: EPRISK/AGON	Time: 9:10	Of: CAPITAL	Time: 9:00	
Name:	Date:	Name:	Date: 24/3	Transport Co:
Of:	Time:	Of:	Time: 1025	

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

ALS Melbourne: 4 Westall Rd, Springvale, VIC 3171 Phone (03) 8549 9600; Facsimile (03) 8549 9601. Email Samples.Melbourne@alsenviro.com

CHAIN OF CUSTODY DOCUMENTATION

Australian Laboratory Services Pty Ltd

CLIENT: Agon Evironmental
ADDRESS / OFFICE: Melbourne
PROJECT MANAGER (PM): Craig Trimbur
PROJECT ID: JC0927
SITE: 20220324042237-ALS-12 P.O. NO.:
RESULTS REQUIRED (Date): 5 days QUOTE NO.: ME-150-19 WGTP

SAMPLER: Emma.S - EP Risk & Toby.G - Agon
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@esdat.com.au motherhublabresults1@wqtp.com.au Amrit.Kaur@agile-analytics.com.au
EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au

FOR LABORATORY USE ONLY
COOLER SEAL (if applicable)
Intact: Yes No N/A
SAMPLE TEMPERATURE
CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DIPOSAL:

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

	SAMPLE INFORMATION (note: S = Soil, W=Water)				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													
9	1	SX_OB_20220323_08_17_SS_Primary_ALS	S	23/03/2022	08:17	Bucket	1	x	x	x	x	x								
10	2	SX_OB_20220323_08_19_SS_Duplicate_ALS	S	23/03/2022	08:19	Bucket	1	x	x	x	x	x								
11	3	SX_OB_20220323_12_17_SS_Primary_ALS	S	23/03/2022	12:17	Bucket	1	x	x	x	x	x								
12	4	SX_OB_20220323_16_04_SS_Triplicate_ALS	S	23/03/2022	16:04	Bucket	1	x	x	x	x	x								
13	5	SX_OB_20220323_16_11_SS_Primary_ALS	S	23/03/2022	16:11	Bucket	1	x	x	x	x	x								
14	6	SX_OB_20220323_20_07_SS_Primary_ALS	S	23/03/2022	20:07	Bucket	1	x	x	x	x	x								
15	7	SX_OB_20220324_00_04_SS_Primary_ALS	S	24/03/2022	00:04	Bucket	1	x	x	x	x	x								
16	8	SX_OB_20220324_04_00_SS_Primary_ALS	S	24/03/2022	04:00	Bucket	1	x	x	x	x	x								

Environmental Division
Melbourne
Work Order Reference
EM2205177

Telephone : -61-3-8549 9600

RELINQUISHED BY:			RECEIVED BY			METHOD OF SHIPMENT
Name: LUKE DALLAS	Date: 24/3/22		Name: Kiah JACKSON	Date: 24/3/22		Con' Note No:
Of: ETRISK/AGON	Time: 9:10		Of: CAPITAL	Time: 9:00		
Name:	Date:		Name:	Date: 24/3		Transport Co:
Of:	Time:		Of: AM	Time: 10:25		

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

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM2205177**	Page	: 1 of 27
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	: 24-Mar-2022 10:25
Order number	: ----	Date Analysis Commenced	: 24-Mar-2022
C-O-C number	: 20220324042237-ALS-12	Issue Date	: 31-Mar-2022 18:05
Sampler	: Emma.S - EP Risk & Toby.G - Agon		
Site	: 20220324042237-ALS-12		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 16		
No. of samples analysed	: 16		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
Andrew Lu	VOC Section Supervisor	Melbourne Inorganics, Springvale, VIC
Andrew Lu	VOC Section Supervisor	Melbourne Organics, Springvale, VIC
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	Melbourne Inorganics, 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.

- 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.
- EP231X: Poor matrix spike recovery for sample EM2204798-006 due to sample matrix interference.
- EG005-T : EM2204785#1 Poor duplicate precision for total metals due to sample matrix. Confirmed by re-digestion and re-analysis.
- EP075-EM: EM2205177_005 Poor surrogate recovery due to sample matrix.
- 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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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	----	0.10	µg/L		<0.10	<0.10	<0.10	<0.10	<0.10
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)	----	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**78.9**	**91.9**	**82.1**	**81.9**	**81.8**
13C8-PFOA	----	0.02	%		**106**	**102**	**104**	**103**	**102**

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	----	----
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	----	----
					EM2205177-006	EM2205177-007	EM2205177-008	--------	--------
					Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)				Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	----	----
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	----	----
Compound	CAS Number	LOR	Unit		EM2205177-006	EM2205177-007	EM2205177-008	--------	--------
					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	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L		<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**86.4**	**83.6**	**82.5**	----	----
13C8-PFOA	----	0.02	%		**103**	**103**	**100**	----	----

Analytical Results

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

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-009	EM2205177-010	EM2205177-011	EM2205177-012	EM2205177-013
					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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-009	EM2205177-010	EM2205177-011	EM2205177-012	EM2205177-013
					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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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	----	0.10	µg/L		<0.10	<0.10	<0.10	<0.10	<0.10
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)	----	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**81.0**	**74.8**	**78.8**	**79.8**	**77.9**
13C8-PFOA	----	0.02	%		**97.9**	**96.5**	**98.6**	**96.6**	**97.6**

Analytical Results

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

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	----	----
				Sampling date / time	23-Mar-2022 00:00	24-Mar-2022 00:00	24-Mar-2022 00:00	----	----
					EM2205177-014	EM2205177-015	EM2205177-016	--------	--------
					Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: DI WATER LEACHATE (Matrix: WATER)				Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	----	----
				Sampling date / time	23-Mar-2022 00:00	24-Mar-2022 00:00	24-Mar-2022 00:00	----	----
Compound	CAS Number	LOR	Unit		EM2205177-014	EM2205177-015	EM2205177-016	--------	--------
					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	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L		<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**76.2**	**75.9**	**80.8**	----	----
13C8-PFOA	----	0.02	%		**96.0**	**99.6**	**95.1**	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.6**	**7.6**	**7.6**	**7.7**	**7.7**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**27.2**	**28.0**	**30.3**	**28.6**	**28.1**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**20**	**22**	**30**	**32**	**26**
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg		**103**	**104**	**116**	**111**	**119**
Copper	7440-50-8	5	mg/kg		**49**	**53**	**57**	**56**	**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		**178**	**162**	**179**	**177**	**164**
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		**82**	**85**	**95**	**95**	**88**
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		**1.4**	<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		**290**	**190**	**240**	**190**	**210**
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**8.8**	**9.0**	**9.3**	**9.1**	**9.0**
After HCl pH	----	0.1	pH Unit		**1.5**	**1.5**	**1.5**	**1.6**	**1.4**
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**	**4.9**	**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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					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**	72-54-8/72-55-9/50-2	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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 08:17	23-Mar-2022 08:19	23-Mar-2022 12:17	23-Mar-2022 16:04	23-Mar-2022 16:11
					EM2205177-001	EM2205177-002	EM2205177-003	EM2205177-004	EM2205177-005
					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	%		**114**	**116**	**101**	**106**	**97.9**
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**97.1**	**97.0**	**97.5**	**96.4**	**79.5**
Toluene-D8	2037-26-5	0.1	%		**92.5**	**97.4**	**97.1**	**94.3**	**79.1**
4-Bromofluorobenzene	460-00-4	0.1	%		**98.9**	**104**	**103**	**102**	**91.3**
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**93.8**	**96.5**	**91.4**	**91.9**	**82.1**
2-Chlorophenol-D4	93951-73-6	0.025	%		**90.2**	**100**	**86.6**	**87.8**	**85.4**
2.4.6-Tribromophenol	118-79-6	0.025	%		**97.1**	**98.6**	**82.6**	**80.2**	**81.2**
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**99.2**	**108**	**83.0**	**85.9**	**83.4**
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**82.3**	**90.0**	**75.1**	**78.1**	**70.4**
2-Fluorobiphenyl	321-60-8	0.025	%		**110**	**97.2**	**78.1**	**78.7**	**63.2**
Anthracene-d10	1719-06-8	0.025	%		**97.8**	**99.6**	**87.5**	**81.3**	**83.5**
4-Terphenyl-d14	1718-51-0	0.025	%		**92.4**	**102**	**87.2**	**77.8**	**83.7**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**101**	**92.1**	**104**	**86.2**	**107**
13C8-PFOA	----	0.0002	%		**101**	**100.0**	**104**	**98.7**	**110**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.7**	**7.8**	**7.6**	**----**	**----**
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**27.5**	**29.8**	**30.5**	**----**	**----**
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**32**	**31**	**32**	**----**	**----**
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	**----**	**----**
Chromium	7440-47-3	5	mg/kg		**103**	**112**	**107**	**----**	**----**
Copper	7440-50-8	5	mg/kg		**53**	**55**	**58**	**----**	**----**
Lead	7439-92-1	5	mg/kg		<5	<5	<5	**----**	**----**
Molybdenum	7439-98-7	5	mg/kg		<5	<5	<5	**----**	**----**
Nickel	7440-02-0	5	mg/kg		**179**	**168**	**167**	**----**	**----**
Selenium	7782-49-2	5	mg/kg		<5	<5	<5	**----**	**----**
Silver	7440-22-4	2	mg/kg		<2	<2	<2	**----**	**----**
Tin	7440-31-5	10	mg/kg		<10	<10	<10	**----**	**----**
Zinc	7440-66-6	5	mg/kg		**88**	**91**	**91**	**----**	**----**
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	**----**	**----**
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg		**1.0**	**1.5**	**1.3**	**----**	**----**
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg		<5	<5	<5	**----**	**----**
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg		**170**	**440**	**170**	**----**	**----**
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**8.9**	**8.9**	**9.1**	**----**	**----**
After HCl pH	----	0.1	pH Unit		**1.5**	**1.5**	**1.5**	**----**	**----**
Extraction Fluid pH	----	0.1	pH Unit		**5.0**	**5.0**	**5.0**	**----**	**----**
Final pH	----	0.1	pH Unit		**5.0**	**5.0**	**5.0**	**----**	**----**
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit		**----**	**----**	**----**	**9.5**	**9.5**
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	**----**	**----**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Styrene	100-42-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of monocyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP074H: Naphthalene									
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP074I: Volatile Halogenated Compounds									
Vinyl chloride	75-01-4	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1-Dichloroethene	75-35-4	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Methylene chloride	75-09-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
trans-1.2-Dichloroethene	156-60-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
cis-1.2-Dichloroethene	156-59-2	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Chloroform	67-66-3	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.1-Trichloroethane	71-55-6	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Carbon Tetrachloride	56-23-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.2-Dichloroethane	107-06-2	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Trichloroethene	79-01-6	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.2-Trichloroethane	79-00-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Tetrachloroethene	127-18-4	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Hexachlorobutadiene	87-68-3	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Chlorobenzene	108-90-7	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.4-Dichlorobenzene	106-46-7	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.2-Dichlorobenzene	95-50-1	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.2.4-Trichlorobenzene	120-82-1	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
^ **Sum of volatile chlorinated hydrocarbons**	----	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
^ **Sum of other chlorinated hydrocarbons**	----	0.50	mg/kg		<0.50	<0.50	<0.50	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated)									
2-Chlorophenol	95-57-8	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
2.4-Dichlorophenol	120-83-2	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
2.6-Dichlorophenol	87-65-0	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
2.4.5-Trichlorophenol	95-95-4	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
2.4.6-Trichlorophenol	88-06-2	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg		<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	----	----
Pentachlorophenol	87-86-5	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
^ **Sum of Phenols (halogenated)**	----	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
EP075A: Phenolic Compounds (Non-halogenated)									
Phenol	108-95-2	1	mg/kg		<1	<1	<1	----	----
2-Methylphenol	95-48-7	1	mg/kg		<1	<1	<1	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		<1	<1	<1	----	----
2-Nitrophenol	88-75-5	1	mg/kg		<1	<1	<1	----	----
2.4-Dimethylphenol	105-67-9	1	mg/kg		<1	<1	<1	----	----
2.4-Dinitrophenol	51-28-5	5	mg/kg		<5	<5	<5	----	----
4-Nitrophenol	100-02-7	5	mg/kg		<5	<5	<5	----	----
2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg		<5	<5	<5	----	----
Dinoseb	88-85-7	20	mg/kg		<20	<20	<20	----	----
2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	20	mg/kg		<20	<20	<20	----	----
^ **Sum of Phenols (non-halogenated)**	----	20	mg/kg		<20	<20	<20	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Chrysene	218-01-9	0.5	mg/kg		<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	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<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	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	----	----
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.03	mg/kg		<0.03	<0.03	<0.03	----	----
trans-Chlordane	5103-74-2	0.03	mg/kg		<0.03	<0.03	<0.03	----	----
Endosulfan 1	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endosulfan 2	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ **Sum of organochlorine pesticides**	----	0.10	mg/kg		<0.10	<0.10	<0.10	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					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	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ **Chlordane**	57-74-9	0.10	mg/kg		<0.10	<0.10	<0.10	----	----
^ **Sum of other organochlorine pesticides**	----	0.03	mg/kg		<0.03	<0.03	<0.03	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	mg/kg		<20	<20	<20	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C6 - C10 Fraction	C6_C10	20	mg/kg		<20	<20	<20	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	----	----
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg		<20	<20	<20	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		<5.0	<5.0	<5.0	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		<5	<5	<5	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		<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	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<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	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg		<10.0	<10.0	<10.0	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date / time	23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 00:00	23-Mar-2022 00:00
					EM2205177-006	EM2205177-007	EM2205177-008	EM2205177-009	EM2205177-010
					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	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg		<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	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg		<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	----	----
Sum of PFAS (WA DER List)	----	10.0	µg/kg		<10.0	<10.0	<10.0	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**106**	**106**	**115**	----	----
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**95.9**	**98.2**	**93.5**	----	----
Toluene-D8	2037-26-5	0.1	%		**94.0**	**95.9**	**92.6**	----	----
4-Bromofluorobenzene	460-00-4	0.1	%		**102**	**102**	**102**	----	----
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**86.2**	**98.2**	**99.3**	----	----
2-Chlorophenol-D4	93951-73-6	0.025	%		**83.6**	**94.2**	**98.9**	----	----
2.4.6-Tribromophenol	118-79-6	0.025	%		**84.3**	**84.3**	**98.2**	----	----
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**81.8**	**92.7**	**93.0**	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**77.9**	**83.8**	**86.8**	----	----
2-Fluorobiphenyl	321-60-8	0.025	%		**80.7**	**86.2**	**77.4**	----	----
Anthracene-d10	1719-06-8	0.025	%		**90.4**	**95.2**	**89.8**	----	----
4-Terphenyl-d14	1718-51-0	0.025	%		**90.3**	**113**	**93.3**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**101**	**102**	**93.4**	----	----
13C8-PFOA	----	0.0002	%		**103**	**105**	**101**	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS
				Sampling date / time	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00	23-Mar-2022 00:00	24-Mar-2022 00:00
					EM2205177-011	**EM2205177-012**	**EM2205177-013**	**EM2205177-014**	**EM2205177-015**
					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**	**9.6**	**9.4**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	SX_OB_20220324_04_00_SS_Primary_ALS	----	----	----	----
			Sampling date / time	24-Mar-2022 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2205177-016	--------	--------	--------	--------
				Result	----	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	**9.4**	**----**	**----**	**----**	**----**

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

Automated Guideline Comparison Report

EPA Victoria Publication IWRG 621 (2009) - Table 2: Soil Hazard Categorisation

Work Order	: **EM2205177**	Page	: 1 of 27
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON		
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: david.lawson@agonenviro.com.au	E-mail	: bronwyn.sheen@alsglobal.com
Telephone	: ----	Telephone	: +6138549 9600
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: JC0927	Date Received	: 24-Mar-2022 10:25
Order number	: ----	Date Analysed	: 24-Mar-2022
C-O-C number	: 20220324042237-ALS-12	Date Issued	: 31-Mar-2022 17:43
No. of samples received	: 16		
No. of samples analysed	: 16	Quote number	: EN/150/19 -WGTP -Bulk Sample Quote

General Comments

This guideline comparison report **only** provides comparison of total concentration data against upper limit thresholds for the 'Fill Material', 'C', 'B' Categories in Table 2 of EPA Publication IWRG621.
This guideline comparison report is **NOT** a soil classification report. Classification of soils as Fill Material, Category C, Category B or Category A requires consideration of a number of other factors including preliminary site investigation, sampling density and statistical calculations, as set out in EPA Publication IWRG 702 and measurement uncertainty.
This guideline comparison report only provides comparison data for parameters, specifically listed within the IWRG621 (2009) guideline, that are analysed by ALS.
Only results in the 'Analytical Results' section have been compared to the guideline.

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

Summary of Thresholds Reached or Exceeded

EPA Victoria Publication IWRG 621 (2009)

Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Client Sample ID	ALS Sample ID	Compound	Method	LOR	Limits	Result
SX_OB_20220323_08_17_SS_Primary_ALS	**EM2205177-001**	Arsenic	EG005T	5	*< 20 mg/kg*	**20 mg/kg**
SX_OB_20220323_08_17_SS_Primary_ALS	**EM2205177-001**	Nickel	EG005T	5	*< 60 mg/kg*	**178 mg/kg**
SX_OB_20220323_08_17_SS_Primary_ALS	**EM2205177-001**	Hexavalent Chromium	EG048G	1.0	*< 1 mg/kg*	**1.4 mg/kg**
SX_OB_20220323_08_19_SS_Duplicate_ALS	**EM2205177-002**	Arsenic	EG005T	5	*< 20 mg/kg*	**22 mg/kg**
SX_OB_20220323_08_19_SS_Duplicate_ALS	**EM2205177-002**	Nickel	EG005T	5	*< 60 mg/kg*	**162 mg/kg**
SX_OB_20220323_12_17_SS_Primary_ALS	**EM2205177-003**	Arsenic	EG005T	5	*< 20 mg/kg*	**30 mg/kg**
SX_OB_20220323_12_17_SS_Primary_ALS	**EM2205177-003**	Nickel	EG005T	5	*< 60 mg/kg*	**179 mg/kg**
SX_OB_20220323_12_17_SS_Primary_ALS	**EM2205177-003**	Hexavalent Chromium	EG048G	1.0	*< 1 mg/kg*	**1.0 mg/kg**
SX_OB_20220323_16_04_SS_Triplicate_ALS	**EM2205177-004**	Arsenic	EG005T	5	*< 20 mg/kg*	**32 mg/kg**
SX_OB_20220323_16_04_SS_Triplicate_ALS	**EM2205177-004**	Nickel	EG005T	5	*< 60 mg/kg*	**177 mg/kg**
SX_OB_20220323_16_11_SS_Primary_ALS	**EM2205177-005**	Arsenic	EG005T	5	*< 20 mg/kg*	**26 mg/kg**
SX_OB_20220323_16_11_SS_Primary_ALS	**EM2205177-005**	Nickel	EG005T	5	*< 60 mg/kg*	**164 mg/kg**
SX_OB_20220323_20_07_SS_Primary_ALS	**EM2205177-006**	Arsenic	EG005T	5	*< 20 mg/kg*	**32 mg/kg**
SX_OB_20220323_20_07_SS_Primary_ALS	**EM2205177-006**	Nickel	EG005T	5	*< 60 mg/kg*	**179 mg/kg**
SX_OB_20220323_20_07_SS_Primary_ALS	**EM2205177-006**	Hexavalent Chromium	EG048G	1.0	*< 1 mg/kg*	**1.0 mg/kg**
SX_OB_20220324_00_04_SS_Primary_ALS	**EM2205177-007**	Arsenic	EG005T	5	*< 20 mg/kg*	**31 mg/kg**
SX_OB_20220324_00_04_SS_Primary_ALS	**EM2205177-007**	Nickel	EG005T	5	*< 60 mg/kg*	**168 mg/kg**
SX_OB_20220324_00_04_SS_Primary_ALS	**EM2205177-007**	Hexavalent Chromium	EG048G	1.0	*< 1 mg/kg*	**1.5 mg/kg**
SX_OB_20220324_04_00_SS_Primary_ALS	**EM2205177-008**	Arsenic	EG005T	5	*< 20 mg/kg*	**32 mg/kg**

EPA Victoria Publication IWRG 621 (2009)

Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Client Sample ID	*ALS Sample ID*	*Compound*	*Method*	*LOR*	*Limits*	*Result*
SX_OB_20220324_04_00_SS_Primary_ALS	**EM2205177-008**	Nickel	EG005T	5	*< 60 mg/kg*	**167 mg/kg**
SX_OB_20220324_04_00_SS_Primary_ALS	**EM2205177-008**	Hexavalent Chromium	EG048G	1.0	*< 1 mg/kg*	**1.3 mg/kg**

Analytical Results

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	SX_OB_20220323_08_17_SS_Primary_ALS 23-Mar-2022 08:17 EM2205177-001	MU	SX_OB_20220323_08_19_SS_Duplicate_ALS 23-Mar-2022 08:19 EM2205177-002	MU	SX_OB_20220323_12_17_SS_Primary_ALS 23-Mar-2022 12:17 EM2205177-003	MU	SX_OB_20220323_16_04_SS_Triplicate_ALS 23-Mar-2022 16:04 EM2205177-004	MU	SX_OB_20220323_16_11_SS_Primary_ALS 23-Mar-2022 16:11 EM2205177-005	MU
EA001: pH in soil using 0.01M CaCl extract															
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	**7.6**	± 0.1	**7.6**	± 0.1	**7.6**	± 0.1	**7.7**	± 0.1	**7.7**	± 0.1
EG005(ED093)T: Total Metals by ICP-AES															
Arsenic	EG005T	5	mg/kg	----	2000	**20**	± 3	**22**	± 3	**30**	± 4	**32**	± 4	**26**	± 4
Cadmium	EG005T	1	mg/kg	----	400	<1	--	<1	--	<1	--	<1	--	<1	--
Copper	EG005T	5	mg/kg	----	20000	**49**	± 6	**53**	± 6	**57**	± 7	**56**	± 7	**52**	± 6
Lead	EG005T	5	mg/kg	----	6000	<5	--	<5	--	<5	--	<5	--	<5	--
Molybdenum	EG005T	5	mg/kg	----	4000	<5	--	<5	--	<5	--	<5	--	<5	--
Nickel	EG005T	5	mg/kg	----	12000	**178**	± 17	**162**	± 16	**179**	± 18	**177**	± 17	**164**	± 16
Selenium	EG005T	5	mg/kg	----	200	<5	--	<5	--	<5	--	<5	--	<5	--
Silver	EG005T	2	mg/kg	----	720	<2	--	<2	--	<2	--	<2	--	<2	--
Zinc	EG005T	5	mg/kg	----	140000	**82**	± 9	**85**	± 10	**95**	± 11	**95**	± 11	**88**	± 10
EG035T: Total Recoverable Mercury by FIMS															
Mercury	EG035T	0.1	mg/kg	----	300	<0.1	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--
EG048: Hexavalent Chromium (Alkaline Digest)															
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	**1.4**	± 0.3	<1.0	--	**1.0**	± 0.2	<1.0	--	<1.0	--
EK026SF: Total CN by Segmented Flow Analyser															
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5	--	<5	--	<5	--	<5	--	<5	--
EK040T: Fluoride Total															
Fluoride	EK040T	100	mg/kg	----	40000	**290**	± 50	**190**	± 40	**240**	± 50	**190**	± 40	**210**	± 40
EP074A: Monocyclic Aromatic Hydrocarbons															
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2	--	<0.2	--	<0.2	--	<0.2	--	<0.2	--
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
EP074I: Volatile Halogenated Compounds															
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50	--	<0.50	--	<0.50	--	<0.50	--	<0.50	--
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50	--	<0.50	--	<0.50	--	<0.50	--	<0.50	--
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50	--	<0.50	--	<0.50	--	<0.50	--	<0.50	--
EP075A: Phenolic Compounds (Halogenated)															
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00	--	<1.00	--	<1.00	--	<1.00	--	<1.00	--

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_08_17_SS_Primary_ALS** 23-Mar-2022 08:17 **EM2205177-001**	MU	**SX_OB_20220323_08_19_SS_Duplicate_ALS** 23-Mar-2022 08:19 **EM2205177-002**	MU	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:17 **EM2205177-003**	MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 16:04 **EM2205177-004**	MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 16:11 **EM2205177-005**	MU
Sample ID															
Sampling date/time															
EP075A: Phenolic Compounds (Non-halogenated)															
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20	--	<20	--	<20	--	<20	--	<20	--
EP075B: Polynuclear Aromatic Hydrocarbons															
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
EP075I: Organochlorine Pesticides															
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<0.30	--	<0.30	--	<0.30	--	<0.30	--	<0.30	--
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05	--	<0.05	--	<0.05	--	<0.05	--	<0.05	--
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<0.10	--	<0.10	--	<0.10	--	<0.10	--	<0.10	--
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50	<0.03	--	<0.03	--	<0.03	--	<0.03	--	<0.03	--
EP080/071: Total Petroleum Hydrocarbons															
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20	--	<20	--	<20	--	<20	--	<20	--
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<50	--	<50	--	<50	--	<50	--	<50	--

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	SX_OB_20220323_08_17_SS_Primary_ALS 23-Mar-2022 08:17 EM2205177-001 MU	SX_OB_20220323_08_19_SS_Duplicate_ALS 23-Mar-2022 08:19 EM2205177-002 MU	SX_OB_20220323_12_17_SS_Primary_ALS 23-Mar-2022 12:17 EM2205177-003 MU	SX_OB_20220323_16_04_SS_Triplicate_ALS 23-Mar-2022 16:04 EM2205177-004 MU	SX_OB_20220323_16_11_SS_Primary_ALS 23-Mar-2022 16:11 EM2205177-005 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	**7.6** ± 0.1	**7.6** ± 0.1	**7.6** ± 0.1	**7.7** ± 0.1	**7.7** ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	**20** ± 3	**22** ± 3	**30** ± 4	**32** ± 4	**26** ± 4
Cadmium	EG005T	1	mg/kg	----	100	<1 --	<1 --	<1 --	<1 --	<1 --
Copper	EG005T	5	mg/kg	----	5000	**49** ± 6	**53** ± 6	**57** ± 7	**56** ± 7	**52** ± 6
Lead	EG005T	5	mg/kg	----	1500	<5 --	<5 --	<5 --	<5 --	<5 --
Molybdenum	EG005T	5	mg/kg	----	1000	<5 --	<5 --	<5 --	<5 --	<5 --
Nickel	EG005T	5	mg/kg	----	3000	**178** ± 17	**162** ± 16	**179** ± 18	**177** ± 17	**164** ± 16
Selenium	EG005T	5	mg/kg	----	50	<5 --	<5 --	<5 --	<5 --	<5 --
Silver	EG005T	2	mg/kg	----	180	<2 --	<2 --	<2 --	<2 --	<2 --
Tin	EG005T	10	mg/kg	----	500	<10 --	<10 --	<10 --	<10 --	<10 --
Zinc	EG005T	5	mg/kg	----	35000	**82** ± 9	**85** ± 10	**95** ± 11	**95** ± 11	**88** ± 10
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	**1.4** ± 0.3	<1.0 --	**1.0** ± 0.2	<1.0 --	<1.0 --
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 --	<5 --	<5 --	<5 --	<5 --
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	**290** ± 50	**190** ± 40	**240** ± 50	**190** ± 40	**210** ± 40
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 --	<0.2 --	<0.2 --	<0.2 --	<0.2 --
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 --	<0.5 --	<0.5 --	<0.5 --	<0.5 --
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 --	<0.50 --	<0.50 --	<0.50 --	<0.50 --
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 --	<0.50 --	<0.50 --	<0.50 --	<0.50 --
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 --	<0.50 --	<0.50 --	<0.50 --	<0.50 --
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 --	<1.00 --	<1.00 --	<1.00 --	<1.00 --

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_08_17_SS_Primary_ALS** 23-Mar-2022 08:17 **EM2205177-001** MU	**SX_OB_20220323_08_19_SS_Duplicate_ALS** 23-Mar-2022 08:19 **EM2205177-002** MU	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:17 **EM2205177-003** MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 16:04 **EM2205177-004** MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 16:11 **EM2205177-005** MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..	<0.5 ..
EP075I: Organochlorine Pesticides										
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..	<0.30 ..
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..	<0.05 ..
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..	<0.10 ..
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..	<0.03 ..
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	<20 ..
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50 ..	<50 ..	<50 ..	<50 ..	<50 ..

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	*Sample ID* / *Sampling date/time*	Guideline Lower Limit	Guideline Upper Limit	SX_OB_20220323_08_17_SS_Primary_ALS 23-Mar-2022 08:17 EM2205177-001 MU	SX_OB_20220323_08_19_SS_Duplicate_ALS 23-Mar-2022 08:19 EM2205177-002 MU	SX_OB_20220323_12_17_SS_Primary_ALS 23-Mar-2022 12:17 EM2205177-003 MU	SX_OB_20220323_16_04_SS_Triplicate_ALS 23-Mar-2022 16:04 EM2205177-004 MU	SX_OB_20220323_16_11_SS_Primary_ALS 23-Mar-2022 16:11 EM2205177-005 MU
EA001: pH in soil using 0.01M CaCl extract											
pH (CaCl2)	EA001	0.1	pH Unit		4	9	**7.6** ± 0.1	**7.6** ± 0.1	**7.6** ± 0.1	**7.7** ± 0.1	**7.7** ± 0.1
EG005(ED093)T: Total Metals by ICP-AES											
Arsenic	EG005T	5	mg/kg		----	20	**20** ± 3	**22** ± 3	**30** ± 4	**32** ± 4	**26** ± 4
Cadmium	EG005T	1	mg/kg		----	3	<1 --	<1 --	<1 --	<1 --	<1 --
Copper	EG005T	5	mg/kg		----	100	**49** ± 6	**53** ± 6	**57** ± 7	**56** ± 7	**52** ± 6
Lead	EG005T	5	mg/kg		----	300	<5 --	<5 --	<5 --	<5 --	<5 --
Molybdenum	EG005T	5	mg/kg		----	40	<5 --	<5 --	<5 --	<5 --	<5 --
Nickel	EG005T	5	mg/kg		----	60	**178** ± 17	**162** ± 16	**179** ± 18	**177** ± 17	**164** ± 16
Selenium	EG005T	5	mg/kg		----	10	<5 --	<5 --	<5 --	<5 --	<5 --
Silver	EG005T	2	mg/kg		----	10	<2 --	<2 --	<2 --	<2 --	<2 --
Tin	EG005T	10	mg/kg		----	50	<10 --	<10 --	<10 --	<10 --	<10 --
Zinc	EG005T	5	mg/kg		----	200	**82** ± 9	**85** ± 10	**95** ± 11	**95** ± 11	**88** ± 10
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg		----	1	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	1.0	mg/kg		----	1	**1.4** ± 0.3	<1.0 --	**1.0** ± 0.2	<1.0 --	<1.0 --
EK026SF: Total CN by Segmented Flow Analyser											
Total Cyanide	EK026SF	5	mg/kg		----	50	<5 --	<5 --	<5 --	<5 --	<5 --
EK040T: Fluoride Total											
Fluoride	EK040T	100	mg/kg		----	450	**290** ± 50	**190** ± 40	**240** ± 50	**190** ± 40	**210** ± 40
EP066: Polychlorinated Biphenyls (PCB)											
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg		----	2	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --
EP074A: Monocyclic Aromatic Hydrocarbons											
Benzene	EP074-UT	0.2	mg/kg		----	1	<0.2 --	<0.2 --	<0.2 --	<0.2 --	<0.2 --
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg		----	7	<0.5 --	<0.5 --	<0.5 --	<0.5 --	<0.5 --
EP074I: Volatile Halogenated Compounds											
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg		----	1	<0.50 --	<0.50 --	<0.50 --	<0.50 --	<0.50 --
EP075A: Phenolic Compounds (Halogenated)											
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg		----	1	<1.00 --	<1.00 --	<1.00 --	<1.00 --	<1.00 --
EP075A: Phenolic Compounds (Non-halogenated)											

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_08_17_SS_Primary_ALS** 23-Mar-2022 08:17 **EM2205177-001**	MU	**SX_OB_20220323_08_19_SS_Duplicate_ALS** 23-Mar-2022 08:19 **EM2205177-002**	MU	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:17 **EM2205177-003**	MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 16:04 **EM2205177-004**	MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 16:11 **EM2205177-005**	MU
Sample ID															
Sampling date/time															
EP075A: Phenolic Compounds (Non-halogenated) - Continued															
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20	--	<20	--	<20	--	<20	--	<20	--
EP075B: Polynuclear Aromatic Hydrocarbons															
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5	--	<0.5	--	<0.5	--	<0.5	--	<0.5	--
EP075I: Organochlorine Pesticides															
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10	--	<0.10	--	<0.10	--	<0.10	--	<0.10	--
EP080/071: Total Petroleum Hydrocarbons															
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20	--	<20	--	<20	--	<20	--	<20	--
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50	--	<50	--	<50	--	<50	--	<50	--

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

				Guideline	Guideline	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
			Sampling date/time			23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 12:15	23-Mar-2022 12:15
Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	**EM2205177-006** MU	**EM2205177-007** MU	**EM2205177-008** MU	**EM2205177-009** MU	**EM2205177-010** MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	**7.7** ± 0.1	**7.8** ± 0.1	**7.6** ± 0.1	----	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	**32** ± 4	**31** ± 4	**32** ± 4	----	----
Cadmium	EG005T	1	mg/kg	----	400	<1 --	<1 --	<1 --	----	----
Copper	EG005T	5	mg/kg	----	20000	**53** ± 6	**55** ± 7	**58** ± 7	----	----
Lead	EG005T	5	mg/kg	----	6000	<5 --	<5 --	<5 --	----	----
Molybdenum	EG005T	5	mg/kg	----	4000	<5 --	<5 --	<5 --	----	----
Nickel	EG005T	5	mg/kg	----	12000	**179** ± 18	**168** ± 16	**167** ± 16	----	----
Selenium	EG005T	5	mg/kg	----	200	<5 --	<5 --	<5 --	----	----
Silver	EG005T	2	mg/kg	----	720	<2 --	<2 --	<2 --	----	----
Zinc	EG005T	5	mg/kg	----	140000	**88** ± 10	**91** ± 10	**91** ± 10	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	**1.0** ± 0.2	**1.5** ± 0.3	**1.3** ± 0.2	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 --	<5 --	<5 --	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	**170** ± 40	**440** ± 70	**170** ± 40	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<0.2 --	<0.2 --	<0.2 --	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	240	<0.5 --	<0.5 --	<0.5 --	----	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 --	<0.50 --	<0.50 --	----	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<0.50 --	<0.50 --	<0.50 --	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	50	<0.50 --	<0.50 --	<0.50 --	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 --	<1.00 --	<1.00 --	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<20 --	<20 --	<20 --	----	----
EP075B: Polynuclear Aromatic Hydrocarbons										

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	*Sample ID* / *Sampling date/time*	SX_OB_20220323_20_07_SS_Primary_ALS 23-Mar-2022 20:07	SX_OB_20220324_00_04_SS_Primary_ALS 24-Mar-2022 00:04	SX_OB_20220324_04_00_SS_Primary_ALS 24-Mar-2022 04:00	SX_OB_20220323_08_17_SS_Primary_ALS 23-Mar-2022 12:15	SX_OB_20220323_08_19_SS_Duplicate_ALS 23-Mar-2022 12:15
							EM2205177-006 MU	EM2205177-007 MU	EM2205177-008 MU	EM2205177-009 MU	EM2205177-010 MU
EP075B: Polynuclear Aromatic Hydrocarbons - Continued											
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	20		<0.5 --	<0.5 --	<0.5 --	----	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400		<0.5 --	<0.5 --	<0.5 --	----	----
EP075I: Organochlorine Pesticides											
Heptachlor	EP075-EM	0.05	mg/kg	----	4.8		<0.05 --	<0.05 --	<0.05 --	----	----
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8		<0.30 --	<0.30 --	<0.30 --	----	----
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50		<0.05 --	<0.05 --	<0.05 --	----	----
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16		<0.10 --	<0.10 --	<0.10 --	----	----
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	50		<0.03 --	<0.03 --	<0.03 --	----	----
EP080/071: Total Petroleum Hydrocarbons											
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600		<20 --	<20 --	<20 --	----	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000		<50 --	<50 --	<50 --	----	----

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

				Sample ID		SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date/time		23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 12:15	23-Mar-2022 12:15
Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**EM2205177-006** MU	**EM2205177-007** MU	**EM2205177-008** MU	**EM2205177-009** MU	**EM2205177-010** MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	**7.7** ± 0.1	**7.8** ± 0.1	**7.6** ± 0.1	----	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	**32** ± 4	**31** ± 4	**32** ± 4	----	----
Cadmium	EG005T	1	mg/kg	----	100	<1 --	<1 --	<1 --	----	----
Copper	EG005T	5	mg/kg	----	5000	**53** ± 6	**55** ± 7	**58** ± 7	----	----
Lead	EG005T	5	mg/kg	----	1500	<5 --	<5 --	<5 --	----	----
Molybdenum	EG005T	5	mg/kg	----	1000	<5 --	<5 --	<5 --	----	----
Nickel	EG005T	5	mg/kg	----	3000	**179** ± 18	**168** ± 16	**167** ± 16	----	----
Selenium	EG005T	5	mg/kg	----	50	<5 --	<5 --	<5 --	----	----
Silver	EG005T	2	mg/kg	----	180	<2 --	<2 --	<2 --	----	----
Tin	EG005T	10	mg/kg	----	500	<10 --	<10 --	<10 --	----	----
Zinc	EG005T	5	mg/kg	----	35000	**88** ± 10	**91** ± 10	**91** ± 10	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	**1.0** ± 0.2	**1.5** ± 0.3	**1.3** ± 0.2	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 --	<5 --	<5 --	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	**170** ± 40	**440** ± 70	**170** ± 40	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<0.2 --	<0.2 --	<0.2 --	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	70	<0.5 --	<0.5 --	<0.5 --	----	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<0.50 --	<0.50 --	<0.50 --	----	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	2.8	<0.50 --	<0.50 --	<0.50 --	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<0.50 --	<0.50 --	<0.50 --	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	10	<1.00 --	<1.00 --	<1.00 --	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<20 --	<20 --	<20 --	----	----

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_20_07_SS_Primary_ALS** *Sampling date/time* 23-Mar-2022 20:07 **EM2205177-006**	MU	**SX_OB_20220324_00_04_SS_Primary_ALS** 24-Mar-2022 00:04 **EM2205177-007**	MU	**SX_OB_20220324_04_00_SS_Primary_ALS** 24-Mar-2022 04:00 **EM2205177-008**	MU	**SX_OB_20220323_08_17_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-009**	MU	**SX_OB_20220323_08_19_SS_Duplicate_ALS** 23-Mar-2022 12:15 **EM2205177-010**	MU
EP075B: Polynuclear Aromatic Hydrocarbons															
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	5	<0.5	--	<0.5	--	<0.5	--	----		----	
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<0.5	--	<0.5	--	<0.5	--	----		----	
EP075I: Organochlorine Pesticides															
Heptachlor	EP075-EM	0.05	mg/kg	----	1.2	<0.05	--	<0.05	--	<0.05	--	----		----	
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<0.30	--	<0.30	--	<0.30	--	----		----	
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	50	<0.05	--	<0.05	--	<0.05	--	----		----	
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<0.10	--	<0.10	--	<0.10	--	----		----	
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	10	<0.03	--	<0.03	--	<0.03	--	----		----	
EP080/071: Total Petroleum Hydrocarbons															
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20	--	<20	--	<20	--	----		----	
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<50	--	<50	--	<50	--	----		----	

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

				Sample ID		SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS	SX_OB_20220324_04_00_SS_Primary_ALS	SX_OB_20220323_08_17_SS_Primary_ALS	SX_OB_20220323_08_19_SS_Duplicate_ALS
				Sampling date/time		23-Mar-2022 20:07	24-Mar-2022 00:04	24-Mar-2022 04:00	23-Mar-2022 12:15	23-Mar-2022 12:15
Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**EM2205177-006** MU	**EM2205177-007** MU	**EM2205177-008** MU	**EM2205177-009** MU	**EM2205177-010** MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	**7.7** ± 0.1	**7.8** ± 0.1	**7.6** ± 0.1	----	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	**32** ± 4	**31** ± 4	**32** ± 4	----	----
Cadmium	EG005T	1	mg/kg	----	3	<1 --	<1 --	<1 --	----	----
Copper	EG005T	5	mg/kg	----	100	**53** ± 6	**55** ± 7	**58** ± 7	----	----
Lead	EG005T	5	mg/kg	----	300	<5 --	<5 --	<5 --	----	----
Molybdenum	EG005T	5	mg/kg	----	40	<5 --	<5 --	<5 --	----	----
Nickel	EG005T	5	mg/kg	----	60	**179** ± 18	**168** ± 16	**167** ± 16	----	----
Selenium	EG005T	5	mg/kg	----	10	<5 --	<5 --	<5 --	----	----
Silver	EG005T	2	mg/kg	----	10	<2 --	<2 --	<2 --	----	----
Tin	EG005T	10	mg/kg	----	50	<10 --	<10 --	<10 --	----	----
Zinc	EG005T	5	mg/kg	----	200	**88** ± 10	**91** ± 10	**91** ± 10	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 --	<0.1 --	<0.1 --	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	**1.0** ± 0.2	**1.5** ± 0.3	**1.3** ± 0.2	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 --	<5 --	<5 --	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	**170** ± 40	**440** ± 70	**170** ± 40	----	----
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<0.1 --	<0.1 --	<0.1 --	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	1	<0.2 --	<0.2 --	<0.2 --	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<0.5 --	<0.5 --	<0.5 --	----	----
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	1	<0.50 --	<0.50 --	<0.50 --	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<1.00 --	<1.00 --	<1.00 --	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<20 --	<20 --	<20 --	----	----

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_20_07_SS_Primary_ALS** 23-Mar-2022 20:07 **EM2205177-006**	MU	**SX_OB_20220324_00_04_SS_Primary_ALS** 24-Mar-2022 00:04 **EM2205177-007**	MU	**SX_OB_20220324_04_00_SS_Primary_ALS** 24-Mar-2022 04:00 **EM2205177-008**	MU	**SX_OB_20220323_08_17_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-009**	MU	**SX_OB_20220323_08_19_SS_Duplicate_ALS** 23-Mar-2022 12:15 **EM2205177-010**	MU
EP075B: Polynuclear Aromatic Hydrocarbons															
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	1	<0.5	--	<0.5	--	<0.5	--	----		----	
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<0.5	--	<0.5	--	<0.5	--	----		----	
EP075I: Organochlorine Pesticides															
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	1	<0.10	--	<0.10	--	<0.10	--	----		----	
EP080/071: Total Petroleum Hydrocarbons															
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20	--	<20	--	<20	--	----		----	
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<50	--	<50	--	<50	--	----		----	

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	*Sample ID*	SX_OB_20220323_12_17_SS_Primary_ALS	SX_OB_20220323_16_04_SS_Triplicate_ALS	SX_OB_20220323_16_11_SS_Primary_ALS	SX_OB_20220323_20_07_SS_Primary_ALS	SX_OB_20220324_00_04_SS_Primary_ALS
						Sampling date/time	23-Mar-2022 12:15	23-Mar-2022 12:15	23-Mar-2022 12:15	23-Mar-2022 12:15	24-Mar-2022 12:15
							EM2205177-011 MU	EM2205177-012 MU	EM2205177-013 MU	EM2205177-014 MU	EM2205177-015 MU
EA001: pH in soil using 0.01M CaCl extract											
pH (CaCl2)	EA001	0.1	pH Unit	----	----		----	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES											
Arsenic	EG005T	5	mg/kg	----	----		----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----		----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----		----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----		----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----		----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----		----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----		----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----		----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----		----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg	----	----		----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----		----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser											
Total Cyanide	EK026SF	5	mg/kg	----	----		----	----	----	----	----
EK040T: Fluoride Total											
Fluoride	EK040T	100	mg/kg	----	----		----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons											
Benzene	EP074-UT	0.2	mg/kg	----	----		----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----		----	----	----	----	----
EP074I: Volatile Halogenated Compounds											
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----		----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----		----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----		----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)											
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----		----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)											
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----		----	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons											

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-011** MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 12:15 **EM2205177-012** MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-013** MU	**SX_OB_20220323_20_07_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-014** MU	**SX_OB_20220324_00_04_SS_Primary_ALS** 24-Mar-2022 12:15 **EM2205177-015** MU
EP075B: Polynuclear Aromatic Hydrocarbons - Continued										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075I: Organochlorine Pesticides										
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Heptachlor	EP075-EM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

			Sample ID			**SX_OB_20220323_12_17_SS_Primary_ALS**	**SX_OB_20220323_16_04_SS_Triplicate_ALS**	**SX_OB_20220323_16_11_SS_Primary_ALS**	**SX_OB_20220323_20_07_SS_Primary_ALS**	**SX_OB_20220324_00_04_SS_Primary_ALS**
			Sampling date/time	Guideline	Guideline	23-Mar-2022 12:15	23-Mar-2022 12:15	23-Mar-2022 12:15	23-Mar-2022 12:15	24-Mar-2022 12:15
Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	**EM2205177-011** MU	**EM2205177-012** MU	**EM2205177-013** MU	**EM2205177-014** MU	**EM2205177-015** MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Tin	EG005T	10	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-011** MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 12:15 **EM2205177-012** MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-013** MU	**SX_OB_20220323_20_07_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-014** MU	**SX_OB_20220324_00_04_SS_Primary_ALS** 24-Mar-2022 12:15 **EM2205177-015** MU
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075I: Organochlorine Pesticides										
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Heptachlor	EP075-EM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-011** MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 12:15 **EM2205177-012** MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-013** MU	**SX_OB_20220323_20_07_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-014** MU	**SX_OB_20220324_00_04_SS_Primary_ALS** 24-Mar-2022 12:15 **EM2205177-015** MU
Sample ID										
Sampling date/time										
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg	----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg	----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg	----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg	----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg	----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg	----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg	----	----	----	----	----	----	----
Tin	EG005T	10	mg/kg	----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg	----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	----	----	----	----	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	----	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	----	----	----	----	----

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	**SX_OB_20220323_12_17_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-011** MU	**SX_OB_20220323_16_04_SS_Triplicate_ALS** 23-Mar-2022 12:15 **EM2205177-012** MU	**SX_OB_20220323_16_11_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-013** MU	**SX_OB_20220323_20_07_SS_Primary_ALS** 23-Mar-2022 12:15 **EM2205177-014** MU	**SX_OB_20220324_00_04_SS_Primary_ALS** 24-Mar-2022 12:15 **EM2205177-015** MU
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	*Sample ID*				
						SX_OB_20220324_04_00_SS_Primary_ALS	**----**	**----**	**----**	**----**
						Sampling date/time 24-Mar-2022 12:15	----	----	----	----
						EM2205177-016 MU				
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	**----**	**----**	**----**	**----**	**----**
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Cadmium	EG005T	1	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Copper	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Lead	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Molybdenum	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Nickel	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Selenium	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Silver	EG005T	2	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Zinc	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP074I: Volatile Halogenated Compounds										
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Vinyl chloride	EP074-UT	0.50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075B: Polynuclear Aromatic Hydrocarbons										

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category B: Table 2: Soil Hazard Categorisation Thresholds : Category B

Sub-Matrix: **SOIL**

			Sample ID	Guideline	Guideline	**SX_OB_20220324_04_00_SS_Primary_ALS**	**----**	**----**	**----**	**----**
			Sampling date/time			24-Mar-2022 12:15	----	----	----	----
Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	**EM2205177-016** MU				
EP075B: Polynuclear Aromatic Hydrocarbons - Continued										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075I: Organochlorine Pesticides										
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Heptachlor	EP075-EM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

				Sample ID	Guideline	Guideline	SX_OB_20220324_04_00_SS_Primary_ALS	----	----	----	----
				Sampling date/time			24-Mar-2022 12:15	----	----	----	----
Compound	*Method*	*LOR*	*Unit*		Lower Limit	Upper Limit	EM2205177-016 MU				
EA001: pH in soil using 0.01M CaCl extract											
pH (CaCl2)	EA001	0.1	pH Unit		----	----	----	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES											
Arsenic	EG005T	5	mg/kg		----	----	----	----	----	----	----
Cadmium	EG005T	1	mg/kg		----	----	----	----	----	----	----
Copper	EG005T	5	mg/kg		----	----	----	----	----	----	----
Lead	EG005T	5	mg/kg		----	----	----	----	----	----	----
Molybdenum	EG005T	5	mg/kg		----	----	----	----	----	----	----
Nickel	EG005T	5	mg/kg		----	----	----	----	----	----	----
Selenium	EG005T	5	mg/kg		----	----	----	----	----	----	----
Silver	EG005T	2	mg/kg		----	----	----	----	----	----	----
Tin	EG005T	10	mg/kg		----	----	----	----	----	----	----
Zinc	EG005T	5	mg/kg		----	----	----	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS											
Mercury	EG035T	0.1	mg/kg		----	----	----	----	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)											
Hexavalent Chromium	EG048G	1.0	mg/kg		----	----	----	----	----	----	----
EK026SF: Total CN by Segmented Flow Analyser											
Total Cyanide	EK026SF	5	mg/kg		----	----	----	----	----	----	----
EK040T: Fluoride Total											
Fluoride	EK040T	100	mg/kg		----	----	----	----	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons											
Benzene	EP074-UT	0.2	mg/kg		----	----	----	----	----	----	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg		----	----	----	----	----	----	----
EP074I: Volatile Halogenated Compounds											
Hexachlorobutadiene	EP074-UT	0.50	mg/kg		----	----	----	----	----	----	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg		----	----	----	----	----	----	----
Vinyl chloride	EP074-UT	0.50	mg/kg		----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Halogenated)											
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg		----	----	----	----	----	----	----
EP075A: Phenolic Compounds (Non-halogenated)											
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg		----	----	----	----	----	----	----

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Category C: Table 2: Soil Hazard Categorisation Thresholds : Category C

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	*Sample ID* / *Sampling date/time*				
						SX_OB_20220324_04_00_SS_Primary_ALS	**----**	**----**	**----**	**----**
						24-Mar-2022 12:15	----	----	----	----
						EM2205177-016 MU				
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075I: Organochlorine Pesticides										
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Heptachlor	EP075-EM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of DDD + DDE + DDT	EP075-EM-SUM	0.05	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of other organochlorine pesticides	EP075-EM-SUM	0.03	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

			Sample ID			**SX_OB_20220324_04_00_SS_Primary_ALS**	**----**	**----**	**----**	**----**
			Sampling date/time	Guideline	Guideline	24-Mar-2022 12:15	----	----	----	----
Compound	*Method*	*LOR*	*Unit*	Lower Limit	Upper Limit	**EM2205177-016** MU				
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	**----**	**----**	**----**	**----**	**----**
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Cadmium	EG005T	1	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Copper	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Lead	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Molybdenum	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Nickel	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Selenium	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Silver	EG005T	2	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Tin	EG005T	10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Zinc	EG005T	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP074I: Volatile Halogenated Compounds										
Sum of volatile chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

Soil Hazard Categorisation and Management

Table 2: Soil Hazard Categorisation Thresholds : Fill Material: Table 2: Soil Hazard Categorisation Thresholds : Fill Material

Sub-Matrix: **SOIL**

Compound	*Method*	*LOR*	*Unit*	Guideline Lower Limit	Guideline Upper Limit	*Sample ID* / *Sampling date/time*				
						SX_OB_20220324_04_00_SS_Primary_ALS	**----**	**----**	**----**	**----**
						24-Mar-2022 12:15	----	----	----	----
						EM2205177-016 MU				
EP075B: Polynuclear Aromatic Hydrocarbons										
Benzo(a)pyrene	EP075-EM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP075I: Organochlorine Pesticides										
Sum of organochlorine pesticides	EP075-EM-SUM	0.10	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
EP080/071: Total Petroleum Hydrocarbons										
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	----	**----**	**----**	**----**	**----**	**----**

QUALITY CONTROL REPORT

Work Order	: **EM2205177**	Page	: 1 of 27
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	: 24-Mar-2022
Order number	: ----	Date Analysis Commenced	: 24-Mar-2022
C-O-C number	: 20220324042237-ALS-12	Issue Date	: 31-Mar-2022
Sampler	: Emma.S - EP Risk & Toby.G - Agon		
Site	: 20220324042237-ALS-12		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 16		
No. of samples analysed	: 16		

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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
Andrew Lu	VOC Section Supervisor	Melbourne Inorganics, Springvale, VIC
Andrew Lu	VOC Section Supervisor	Melbourne Organics, Springvale, VIC
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	Melbourne Inorganics, 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: 4254481)									
EM2204785-001	Anonymous	EG005T: Nickel	7440-02-0	2	mg/kg	53	# 3	179	0% - 20%
EM2204785-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	17	23	33.7	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	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	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	26	36	30.3	No Limit
		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	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	43	58	30.5	0% - 50%
EM2205063-004	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	32	32	0.0	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	26	29	10.9	0% - 50%
		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	6	6	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	9	9	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
		EG005T: Zinc	7440-66-6	5	mg/kg	11	11	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4254484)									

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4254484) - continued									
EM2205177-007	SX_OB_20220324_00_04_SS_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	112	106	5.7	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	168	156	7.9	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	31	28	11.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	55	52	6.3	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	91	84	6.9	0% - 50%
EM2205307-014	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	20	20	0.0	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	5	4	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	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	13	13	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	26	27	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
		EG005T: Zinc	7440-66-6	5	mg/kg	52	50	4.1	0% - 50%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4256967)									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.6	7.6	0.0	0% - 20%
EM2205226-007	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	5.9	5.9	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4257227)									
EM2205168-011	Anonymous	EA055: Moisture Content	----	0.1	%	11.8	11.6	1.8	0% - 50%
EM2205250-002	Anonymous	EA055: Moisture Content	----	0.1	%	11.5	11.6	1.1	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4254482)									
EM2204785-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2205063-004	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: 4254483)									
EM2205177-007	SX_OB_20220324_00_04_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2205307-014	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: 4257238)									
EM2205063-001	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4257238) - continued									
EM2205177-008	SX_OB_20220324_04_00_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	1.3	1.1	10.9	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4255425)									
EM2205063-002	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EM2205027-001	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4254657)									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	290	190	41.3	No Limit
EM2205226-007	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	100	120	15.5	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4254384)									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2205260-007	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4250022)									
EM2205177-001	SX_OB_20220323_08_17_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
EP074H: Naphthalene (QC Lot: 4250022)									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4250022)									
EM2205177-001	SX_OB_20220323_08_17_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

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: 4250022) - continued									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	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: 4254383)									
EM2205177-001	SX_OB_20220323_08_17_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	4901-51-3/58-90-2	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
EM2205260-007	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	<0.03	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	<0.05	<0.05	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4254383)									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4254383) - continued									
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	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
EM2205260-007	Anonymous	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	<5	<5	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	<5	0.0	No Limit
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4254383)									
EM2205177-001	SX_OB_20220323_08_17_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
EM2205260-007	Anonymous	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

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: 4254383) - continued									
EM2205260-007	Anonymous	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: 4254383)									
EM2205177-001	SX_OB_20220323_08_17_ 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
EM2205260-007	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	<0.03	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	<0.03	<0.03	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: 4254383) - continued									
EM2205260-007	Anonymous	EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	<0.03	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: 4250022)									
EM2205177-001	SX_OB_20220323_08_17_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4254385)									
EM2205177-001	SX_OB_20220323_08_17_ 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
EM2205260-007	Anonymous	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: 4250022)									
EM2205177-001	SX_OB_20220323_08_17_ SS_Primary_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: 4254385)									
EM2205177-001	SX_OB_20220323_08_17_ 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
EM2205260-007	Anonymous	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: 4258042)									
EM2205062-001	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

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4258042) - continued									
EM2205062-001	Anonymous	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	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2205177-002	SX_OB_20220323_08_19_ SS_Duplicate_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: 4258042)									
EM2205062-001	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
		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
EM2205177-002	SX_OB_20220323_08_19_ SS_Duplicate_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 (PFTrDA)	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: 4258042)									
EM2205062-001	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

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: 4258042) - continued									
EM2205062-001	Anonymous	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
EM2205177-002	SX_OB_20220323_08_19_ SS_Duplicate_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
		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: 4258042)									
EM2205062-001	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
EM2205177-002	SX_OB_20220323_08_19_ SS_Duplicate_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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231P: PFAS Sums (QC Lot: 4258042)									
EM2205062-001	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4257773)									
EM2204798-001	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
		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
EM2205177-001	SX_OB_20220323_08_17_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
		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: 4258025)									
EM2204798-004	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
EM2205177-012	SX_OB_20220323_16_04_SS_Triplicate_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
		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: 4257773)									

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: 4257773) - continued									
EM2204798-001	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
EM2205177-001	SX_OB_20220323_08_17_ 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
		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: 4258025)									
EM2204798-004	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
EM2205177-012	SX_OB_20220323_16_04_ SS_Triplicate_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

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: 4258025) - continued									
EM2205177-012	SX_OB_20220323_16_04_SS_Triplicate_ALS	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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4257773)									
EM2204798-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2205177-001	SX_OB_20220323_08_17_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	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: 4258025)									
EM2204798-004	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: 4258025) - continued									
EM2204798-004	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
EM2205177-012	SX_OB_20220323_16_04_ SS_Triplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	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: 4257773)									
EM2204798-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EM2205177-001	SX_OB_20220323_08_17_ 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

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: 4258025)									
EM2204798-004	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
EM2205177-012	SX_OB_20220323_16_04_ SS_Triplicate_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: 4257773)									
EM2204798-001	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
EM2205177-001	SX_OB_20220323_08_17_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	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	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4258025)									
EM2204798-004	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
EM2205177-012	SX_OB_20220323_16_04_ SS_Triplicate_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	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	<0.05	<0.05	0.0	No Limit

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

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

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4254481)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	98.0	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	64.3	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	98.6	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	93.3	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	89.8	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	91.9	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	95.0	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	80.0	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	93.4	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	76.2	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4254484)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	98.5	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	65.0	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	100	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	94.1	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	90.2	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	82.6	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	97.5	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	80.9	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	99.7	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	76.7	70.0	130
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4255409)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.2	----	----	----	----
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4256967)								
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: 4254482)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	99.2	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4254483)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	97.6	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4257238)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	84.0	70.0	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4255425)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	92.2	70.0	130
EK040T: Fluoride Total (QCLot: 4254657)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	105	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4254384)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	109	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4250022)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	82.3	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	82.4	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	80.5	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4.2 mg/kg	79.0	65.2	112
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	83.2	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	80.8	68.4	110
EP074H: Naphthalene (QCLot: 4250022)								
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	89.2	72.3	114
EP074I: Volatile Halogenated Compounds (QCLot: 4250022)								
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	83.2	47.0	138
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	77.8	57.6	125
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	85.3	72.3	115
EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	81.8	60.5	122
EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	81.8	70.3	112
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	82.7	66.6	115
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	79.0	64.4	122
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	74.4	58.4	127
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	90.3	72.9	114
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	79.0	64.7	115
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	88.9	72.6	116
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	79.2	60.0	119
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	83.4	71.8	116
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	87.0	66.1	116
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	76.0	39.8	128
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	83.8	70.3	113
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	82.4	62.6	113
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	85.8	70.8	110
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	82.8	48.4	120
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4254383)								
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	94.2	74.5	126
EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	89.2	72.7	126

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4254383) - continued								
EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	99.2	73.5	132
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	94.0	72.8	128
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	90.6	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	92.8	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	106	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	104	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	89.8	54.4	135
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4254383)								
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	90.7	71.5	130
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	92.3	73.4	129
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	84.3	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	95.2	70.9	133
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	92.7	71.8	132
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	95.8	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	116	65.3	134
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	83.5	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	86.5	62.0	128
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	82.5	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4254383)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	90.6	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	93.5	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	90.5	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	106	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	90.2	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	94.9	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	84.6	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	97.9	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	98.4	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	98.5	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	93.7	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	91.4	65.1	130
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	85.6	72.1	134
EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	84.4	72.9	135
EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	88.0	71.3	134
EP075I: Organochlorine Pesticides (QCLot: 4254383)								
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	90.8	71.0	129

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075I: Organochlorine Pesticides (QCLot: 4254383) - continued								
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	80.6	74.8	126
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	93.0	75.7	130
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	89.9	70.8	130
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	100	76.5	134
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	97.5	75.5	131
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	89.2	76.8	130
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	87.3	73.6	130
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	91.6	75.0	133
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	84.2	75.3	131
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	95.7	69.4	134
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	94.8	71.0	132
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	86.5	78.0	133
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	78.0	69.0	143
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	110	55.7	145
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	86.5	71.4	135
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	83.9	74.8	134
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	90.5	70.2	135
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	86.1	77.7	133
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	96.7	63.6	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4250022)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	80.9	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4254385)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	760 mg/kg	93.6	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	3270 mg/kg	93.2	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1550 mg/kg	92.2	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	93.0	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4250022)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	79.6	59.9	119
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4254385)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1110 mg/kg	93.7	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	4180 mg/kg	93.1	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	290 mg/kg	95.5	73.3	136
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	93.4	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258042)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	104	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	92.1	73.0	123

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258042) - continued								
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	71.8	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	105	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	103	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	101	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258042)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	85.0	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.0	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.8	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.0	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.8	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.3	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	83.9	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.5	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.7	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	70.8	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4258042)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.5	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	100	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	82.4	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	87.0	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	106	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.4	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	92.4	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4258042)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	97.9	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	94.2	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	96.0	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00121 mg/kg	83.5	70.0	130
EP231P: PFAS Sums (QCLot: 4258042)								
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	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4257773)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	92.3	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	99.3	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	90.2	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	85.5	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	89.7	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	86.6	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258025)								
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	105	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	99.4	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	93.9	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	103	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	89.3	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4257773)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	89.1	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	90.8	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	93.4	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	99.2	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	92.8	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	103	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	85.2	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	96.3	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	92.3	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	90.1	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	94.0	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258025)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	94.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	98.0	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	99.5	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	99.3	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.9	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	109	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	94.2	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	105	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	102	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	102	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	102	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4257773)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4257773) - continued								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	89.1	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	88.7	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	101	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	94.0	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	98.7	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	97.5	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	107	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4258025)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	101	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	129	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	117	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	123	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	112	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	93.4	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	93.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4257773)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	89.2	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	98.4	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	94.8	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	72.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4258025)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	92.7	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	86.4	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	107	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	88.8	70.0	130
EP231P: PFAS Sums (QCLot: 4257773)								
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: 4258025)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	LCS: Spike Recovery (%)	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231P: PFAS Sums (QCLot: 4258025) - continued								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4254481)							
EM2204785-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	88.0	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.8	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	98.3	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	101	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	96.7	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	94.8	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	92.9	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4254484)							
EM2205177-008	SX_OB_20220324_04_00_SS_Primary_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	84.9	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	95.6	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	92.6	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	100	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	93.2	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	109	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	92.8	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4254482)							
EM2204785-002	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	106	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4254483)							
EM2205177-008	SX_OB_20220324_04_00_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	112	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4257238)							
EM2205063-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	78.2	58.0	114
EM2205063-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	88.8	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4255425)							
EM2205027-002	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	96.6	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK040T: Fluoride Total (QCLot: 4254657)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	72.8	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4254384)							
EM2205177-003	SX_OB_20220323_12_17_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	109	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4250022)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	82.0	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	84.2	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4250022)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	2 mg/kg	71.1	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	73.3	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	78.8	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4254383)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	89.9	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	80.3	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	87.0	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4254383)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	87.7	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	75.8	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4254383)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	76.6	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	89.4	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4250022)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	71.1	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4254385)							
EM2205177-004	SX_OB_20220323_16_04_SS_Triplicate_ALS	EP071-EM: C10 - C14 Fraction	----	760 mg/kg	92.7	71.3	126
		EP071-EM: C15 - C28 Fraction	----	3270 mg/kg	91.5	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1550 mg/kg	90.3	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5580 mg/kg	91.6	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4250022)							
EM2205177-002	SX_OB_20220323_08_19_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	68.9	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4254385)							
EM2205177-004	SX_OB_20220323_16_04_SS_Triplicate_ALS	EP071-EM: >C10 - C16 Fraction	----	1110 mg/kg	92.4	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	4180 mg/kg	91.3	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	290 mg/kg	93.7	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5580 mg/kg	91.8	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258042)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258042) - continued							
EM2205062-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	93.8	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	96.4	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	95.4	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	110	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	103	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	91.2	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258042)							
EM2205062-002	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	89.7	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	93.6	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	92.6	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	89.9	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	92.9	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	93.4	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	77.1	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	86.8	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	92.8	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	85.1	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	96.4	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4258042)							
EM2205062-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	98.7	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	103	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	94.8	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	92.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	99.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	97.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	80.4	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4258042)							
EM2205062-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	100	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	93.5	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	108	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	# 65.8	70.0	130

Sub-Matrix: **WATER**

		Matrix Spike (MS) Report			
		Spike	SpikeRecovery(%)	Acceptable Limits (%)	

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: 4257773)							
EM2204798-002	Anonymous	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	100	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	93.1	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	102	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	87.5	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	95.8	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258025)							
EM2204798-006	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	93.2	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	95.5	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	92.9	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	85.5	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	80.2	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	79.3	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4257773)							
EM2204798-002	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	92.9	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	98.2	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	97.5	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	103	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	95.7	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	107	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	89.7	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	106	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	106	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	103	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	105	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258025)							
EM2204798-006	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	73.7	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	92.0	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	90.7	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	94.2	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	92.3	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	106	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	86.0	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	89.7	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	75.2	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	# 42.7	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	# 39.9	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4257773)							

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: 4257773) - continued							
EM2204798-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	99.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	110	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	101	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	108	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	100	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	105	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4258025)							
EM2204798-006	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	86.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	# 65.1	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	# 56.4	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	# 68.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	82.9	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	# 60.5	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	62.3	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4257773)							
EM2204798-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	86.3	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	98.0	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	89.2	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4258025)							
EM2204798-006	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	85.6	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	90.8	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	94.2	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 55.4	70.0	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2205177**	Page	: 1 of 13
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +6138549 9600
Project	: JC0927	Date Samples Received	: 24-Mar-2022
Site	: 20220324042237-ALS-12	Issue Date	: 31-Mar-2022
Sampler	: Emma.S - EP Risk & Toby.G - Agon	No. of samples received	: 16
Order number	: ----	No. of samples analysed	: 16

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO Method Blank value outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Duplicate outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **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	EM2204785--001	Anonymous	**Nickel**	7440-02-0	179 %	0% - 20%	**RPD exceeds LOR based limits**
Matrix Spike (MS) Recoveries							
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2205062--002	Anonymous	**10:2 Fluorotelomer sulfonic acid (10:2 FTS)**	120226-60-0	65.8 %	70.0-130%	**Recovery less than lower data quality objective**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231B: Perfluoroalkyl Carboxylic Acids	EM2204798--006	Anonymous	**Perfluorotridecanoic acid (PFTrDA)**	72629-94-8	42.7 %	65.0-144%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2204798--006	Anonymous	**Perfluorotetradecanoic acid (PFTeDA)**	376-06-7	39.9 %	71.0-132%	**Recovery less than lower data quality objective**
EP231C: Perfluoroalkyl Sulfonamides	EM2204798--006	Anonymous	**N-Methyl perfluorooctane sulfonamide (MeFOSA)**	31506-32-8	65.1 %	68.0-141%	**Recovery less than lower data quality objective**
EP231C: Perfluoroalkyl Sulfonamides	EM2204798--006	Anonymous	**N-Ethyl perfluorooctane sulfonamide (EtFOSA)**	4151-50-2	56.4 %	70.0-130%	**Recovery less than lower data quality objective**
EP231C: Perfluoroalkyl Sulfonamides	EM2204798--006	Anonymous	**N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)**	24448-09-7	68.2 %	70.0-130%	**Recovery less than lower data quality objective**
EP231C: Perfluoroalkyl Sulfonamides	EM2204798--006	Anonymous	**N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)**	2355-31-9	60.5 %	65.0-136%	**Recovery less than lower data quality objective**
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2204798--006	Anonymous	**10:2 Fluorotelomer sulfonic acid (10:2 FTS)**	120226-60-0	55.4 %	70.0-130%	**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							
EP075T: Base/Neutral Extractable Surrogates (Waste C	EM2205177-005	SX_OB_20220323_16_11_SS	**2-Fluorobiphenyl**	321-60-8	63.2 %	68.9-131 %	**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_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	30-Mar-2022	✓	**30-Mar-2022**	30-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA001)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	31-Mar-2022	✓	**30-Mar-2022**	30-Mar-2022	✓
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**----**	----	----	**30-Mar-2022**	06-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**----**	----	----	**30-Mar-2022**	07-Apr-2022	✓
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	19-Sep-2022	✓	**30-Mar-2022**	19-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	20-Sep-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	20-Apr-2022	✓	**31-Mar-2022**	20-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG035T)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	21-Apr-2022	✓	**31-Mar-2022**	21-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
EG048: Hexavalent Chromium (Alkaline Digest)							
Soil Glass Jar - Unpreserved (EG048G)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	20-Apr-2022	✓	**30-Mar-2022**	06-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG048G)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	21-Apr-2022	✓	**30-Mar-2022**	06-Apr-2022	✓
EK026SF: Total CN by Segmented Flow Analyser							
Soil Glass Jar - Unpreserved (EK026SF)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	13-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	13-Apr-2022	✓
EK040T: Fluoride Total							
Soil Glass Jar - Unpreserved (EK040T)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	20-Apr-2022	✓	**31-Mar-2022**	20-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK040T)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	21-Apr-2022	✓	**31-Mar-2022**	21-Apr-2022	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**29-Mar-2022**	19-Sep-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**29-Mar-2022**	20-Sep-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_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**29-Mar-2022**	19-Sep-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**29-Mar-2022**	20-Sep-2022	✓	**----**	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-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_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**25-Mar-2022**	30-Mar-2022	✓	**25-Mar-2022**	30-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**25-Mar-2022**	31-Mar-2022	✓	**25-Mar-2022**	31-Mar-2022	✓
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**25-Mar-2022**	30-Mar-2022	✓	**25-Mar-2022**	30-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**25-Mar-2022**	31-Mar-2022	✓	**25-Mar-2022**	31-Mar-2022	✓
EP074I: Volatile Halogenated Compounds							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**25-Mar-2022**	30-Mar-2022	✓	**25-Mar-2022**	30-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**25-Mar-2022**	31-Mar-2022	✓	**25-Mar-2022**	31-Mar-2022	✓
EP075A: Phenolic Compounds (Halogenated)							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP075A: Phenolic Compounds (Non-halogenated)							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-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
EP075l: Organochlorine Pesticides							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**25-Mar-2022**	30-Mar-2022	✓	**25-Mar-2022**	30-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**25-Mar-2022**	31-Mar-2022	✓	**25-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**25-Mar-2022**	30-Mar-2022	✓	**25-Mar-2022**	30-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	06-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**25-Mar-2022**	31-Mar-2022	✓	**25-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	19-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
HDPE Soil Jar (EP231X)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	09-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_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	19-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
HDPE Soil Jar (EP231X)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	19-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
HDPE Soil Jar (EP231X)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	19-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
HDPE Soil Jar (EP231X)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS	**23-Mar-2022**	**30-Mar-2022**	19-Sep-2022	✓	**30-Mar-2022**	09-May-2022	✓
HDPE Soil Jar (EP231X)							
SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	09-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_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS, SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**29-Mar-2022**	**30-Mar-2022**	25-Sep-2022	✓	**30-Mar-2022**	25-Sep-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_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS, SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**29-Mar-2022**	**30-Mar-2022**	25-Sep-2022	✓	**30-Mar-2022**	25-Sep-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS, SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**29-Mar-2022**	**30-Mar-2022**	25-Sep-2022	✓	**30-Mar-2022**	25-Sep-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS, SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**29-Mar-2022**	**30-Mar-2022**	25-Sep-2022	✓	**30-Mar-2022**	25-Sep-2022	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X)							
SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS, SX_OB_20220323_08_17_SS_Primary_ALS, SX_OB_20220323_08_19_SS_Duplicate_ALS, SX_OB_20220323_12_17_SS_Primary_ALS, SX_OB_20220323_16_04_SS_Triplicate_ALS, SX_OB_20220323_16_11_SS_Primary_ALS, SX_OB_20220323_20_07_SS_Primary_ALS, SX_OB_20220324_00_04_SS_Primary_ALS, SX_OB_20220324_04_00_SS_Primary_ALS	**29-Mar-2022**	**30-Mar-2022**	25-Sep-2022	✓	**30-Mar-2022**	25-Sep-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		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	19	**10.53**	**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	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	20	**10.00**	**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	2	19	**10.53**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	34	**11.76**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	34	**14.71**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	19	**5.26**	**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	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	20	**5.00**	**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	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-Dla-P	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	19	**5.26**	**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	20	**5.00**	**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	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**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		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	19	**5.26**	**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	20	**5.00**	**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	1	19	**5.26**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	34	**5.88**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

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

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	30	**13.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	30	**6.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	30	**6.67**	**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 CaCl2 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 CaCl2 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 (SnCl2) (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 SnCl2 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.

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 CaCl2 extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 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, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

Preparation Methods	Method	Matrix	Method Descriptions
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.

ALS Melbourne: 4 Westall Rd, Springvale, VIC 3171 Phone (03) 8549 9600; Facsimile (03) 8549 9601. Email Samples.Melbourne@alsenviro.com

CHAIN OF CUSTODY DOCUMENTATION

Australian Laboratory Services Pty Ltd

CLIENT: Agon Evironmental
ADDRESS / OFFICE: Melbourne
PROJECT MANAGER (PM): Craig Trimbur
PROJECT ID: JC0927
SITE: 20220325043559-ALS-13 P.O. NO.:
RESULTS REQUIRED (Date): 5 days QUOTE NO.: ME-150-19 WGTP

SAMPLER: Luke D - EP Risk & Tina B Agon
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@esdat.com.au motherhublabresults1@wgtp.com.au Amrit.Kaur@agile-analytics.com.au
EMAIL INVOICE TO: (if different to report) Labreports.TST@agonenviro.com.au agonenvironmental@esdat.com.au

FOR LABORATORY USE ONLY:
COOLER SEAL (if applicable): YES NO N/A
SAMPLE TEMPERATURE:
CHILLED: YES NO

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

SAMPLE INFORMATION (note: S = Soil, W=Water)					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						
1	SX_OB_20220324_08_07_SS_Primary_ALS	S	24.03.2022	08:07	Bucket	1	x	x	x	x	x	
2	SX_OB_20220324_08_11_SS_Duplicate_ALS	S	24.03.2022	08:11	Bucket	1	x	x	x	x	x	
3	SX_OB_20220324_08_36_SB_Blank_ALS	W	24.03.2022	08:36	Bottle	1			x			
4	SX_OB_20220324_08_33_SR_Rinsate_ALS	W	24.03.2022	08:33	Bottle	1			x			
5	SX_OB_20220324_12_18_SS_Primary_ALS	S	24.03.2022	12:18	Bucket	1	x	x	x	x	x	
6	SX_OB_20220324_16_35_SS_Primary_ALS	S	24.03.2022	16:35	Bucket	1	x	x	x	x	x	
7	SX_OB_20220324_16_27_SS_Triplicate_ALS	S	24.03.2022	16:27	Bucket	1	x	x	x	x	x	
8	SX_OB_20220324_20_13_SS_Primary_ALS	S	24.03.2022	20:13	Bucket	1	x	x	x	x	x	
9	SX_OB_20220325_00_08_SS_Primary_ALS	S	25.03.2022	00:08	Bucket	1	x	x	x	x	x	
10	SX_OB_20220325_04_18_SS_Primary_ALS	S	25.03.2022	04:18	Bucket	1	x	x	x	x	x	

Environmental Division
Melbourne
Work Order Reference
EM2205361

Telephone : +61-3-8549 9600

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: Emma Strong	Date: 25/03/2022	Name:	Date: 25/3	Con' Note No:
Of: EP Risk	Time: 10:22am	Of:	Time: 3-00	
Name:	Date:	Name:	Date:	Transport Co:
Of:	Time:	Of:	Time:	

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

AUSTRALIAN LABORATORY SERVICES P/L

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM2205361**	Page	: 1 of 29
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	: 25-Mar-2022 15:40
Order number	: ----	Date Analysis Commenced	: 28-Mar-2022
C-O-C number	: 20220325043559-ALS-13	Issue Date	: 01-Apr-2022 17:57
Sampler	: Luke D - EP Risk & Tina B Agon		
Site	: 20220325043559-ALS-13		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 18		
No. of samples analysed	: 18		

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	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.

- EP231X: Poor matrix spike recovery for sample EM2205510-002 due to sample matrix interference.
- EG048G: EM2205647 #10 poor matrix spike recovery for hexavalent chromium due to matrix effects. Confirmed by 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.
- 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.
- EP231X-INJ: The direct injection LCMSMS method may be used where the sample matrix is not suitable for Solid Phase Extraction (e.g. significant particulate load) or where only a single sample container is received.

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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	----	0.10	µg/L		<0.10	<0.10	<0.10	<0.10	<0.10
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)	----	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**94.8**	**93.2**	**90.5**	**100**	**85.6**
13C8-PFOA	----	0.02	%		**101**	**102**	**106**	**104**	**103**

Analytical Results

Sub-Matrix: **ASLP LEACHATE** (Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	----	----
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	----	----
					EM2205361-008	EM2205361-009	EM2205361-010	--------	--------
					Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: ASLP LEACHATE (Matrix: WATER)				Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	----	----
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	----	----
Compound	CAS Number	LOR	Unit		EM2205361-008	EM2205361-009	EM2205361-010	--------	--------
					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	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L		<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**93.8**	**95.1**	**93.3**	----	----
13C8-PFOA	----	0.02	%		**104**	**109**	**102**	----	----

Analytical Results

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

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-011	EM2205361-012	EM2205361-013	EM2205361-014	EM2205361-015
					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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-011	**EM2205361-012**	**EM2205361-013**	**EM2205361-014**	**EM2205361-015**
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	<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	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
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	----	0.10	µg/L		<0.10	<0.10	<0.10	<0.10	<0.10
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)	----	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**97.4**	**90.8**	**90.4**	**94.9**	**94.9**
13C8-PFOA	----	0.02	%		**98.9**	**100**	**104**	**101**	**102**

Analytical Results

Sub-Matrix: DI WATER LEACHATE (Matrix: WATER)				Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	----	----
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	----	----
Compound	CAS Number	LOR	Unit		EM2205361-016	EM2205361-017	EM2205361-018	--------	--------
					Result	Result	Result	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	<0.1	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----

Analytical Results

Sub-Matrix: DI WATER LEACHATE (Matrix: WATER)				Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	----	----
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	----	----
Compound	CAS Number	LOR	Unit		EM2205361-016	EM2205361-017	EM2205361-018	--------	--------
					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	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L		<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.10	µg/L		<0.10	<0.10	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	<0.01	----	----
Sum of PFAS (WA DER List)	----	0.05	µg/L		<0.05	<0.05	<0.05	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**88.5**	**92.1**	**93.0**	----	----
13C8-PFOA	----	0.02	%		**100**	**100**	**101**	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		8.0	8.2	7.7	7.7	7.8
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		25.8	28.0	28.1	28.8	25.3
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		24	27	34	32	19
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg		96	102	102	104	102
Copper	7440-50-8	5	mg/kg		54	57	56	59	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		163	169	151	180	164
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		86	90	110	96	78
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		1.4	<1.0	1.2	1.2	1.6
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		880	550	420	420	540
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		9.2	9.3	9.0	9.5	9.5
After HCl pH	----	0.1	pH Unit		1.4	1.4	1.3	1.4	1.4
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	5.1	5.1	5.1
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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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**	72-54-8/72-55-9/50-2	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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS
				Sampling date / time	24-Mar-2022 08:07	24-Mar-2022 08:11	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27
					EM2205361-001	EM2205361-002	EM2205361-005	EM2205361-006	EM2205361-007
					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	%		**120**	**120**	**120**	**118**	**120**
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**80.9**	**97.4**	**83.1**	**71.0**	**92.1**
Toluene-D8	2037-26-5	0.1	%		**88.6**	**108**	**95.6**	**77.1**	**103**
4-Bromofluorobenzene	460-00-4	0.1	%		**95.8**	**107**	**97.1**	**84.5**	**103**
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**103**	**113**	**103**	**100.0**	**96.3**
2-Chlorophenol-D4	93951-73-6	0.025	%		**103**	**113**	**97.1**	**99.6**	**96.8**
2.4.6-Tribromophenol	118-79-6	0.025	%		**87.4**	**90.0**	**94.4**	**86.2**	**87.9**
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**93.8**	**86.6**	**87.9**	**91.3**	**91.7**
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**80.8**	**81.4**	**80.4**	**81.9**	**82.8**
2-Fluorobiphenyl	321-60-8	0.025	%		**90.7**	**94.9**	**94.2**	**91.7**	**95.2**
Anthracene-d10	1719-06-8	0.025	%		**93.4**	**93.3**	**96.4**	**89.9**	**92.5**
4-Terphenyl-d14	1718-51-0	0.025	%		**94.2**	**90.9**	**94.3**	**85.2**	**88.7**
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**94.8**	**92.8**	**96.3**	**91.4**	**99.0**
13C8-PFOA	----	0.0002	%		**102**	**103**	**104**	**104**	**104**

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit		**7.7**	**7.8**	**7.7**	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		**31.2**	**30.0**	**29.1**	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		**36**	**38**	**28**	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	----	----
Chromium	7440-47-3	5	mg/kg		**101**	**103**	**107**	----	----
Copper	7440-50-8	5	mg/kg		**61**	**66**	**56**	----	----
Lead	7439-92-1	5	mg/kg		<5	<5	<5	----	----
Molybdenum	7439-98-7	5	mg/kg		<5	<5	<5	----	----
Nickel	7440-02-0	5	mg/kg		**190**	**189**	**170**	----	----
Selenium	7782-49-2	5	mg/kg		<5	<5	<5	----	----
Silver	7440-22-4	2	mg/kg		<2	<2	<2	----	----
Tin	7440-31-5	10	mg/kg		<10	<10	<10	----	----
Zinc	7440-66-6	5	mg/kg		**102**	**91**	**86**	----	----
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg		<0.1	<0.1	<0.1	----	----
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg		**1.5**	<1.0	<1.0	----	----
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg		<5	<5	<5	----	----
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg		**350**	**340**	**480**	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		**9.4**	**9.6**	**9.4**	----	----
After HCl pH	----	0.1	pH Unit		**1.4**	**1.5**	**1.4**	----	----
Extraction Fluid pH	----	0.1	pH Unit		**5.0**	**5.0**	**5.0**	----	----
Final pH	----	0.1	pH Unit		**5.1**	**5.1**	**5.0**	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit		----	----	----	**9.7**	**10.1**
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		<0.1	<0.1	<0.1	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Styrene	100-42-5	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of monocyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Total Xylenes**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
EP074H: Naphthalene									
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	----	----
EP074I: Volatile Halogenated Compounds									
Vinyl chloride	75-01-4	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1-Dichloroethene	75-35-4	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Methylene chloride	75-09-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
trans-1.2-Dichloroethene	156-60-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
cis-1.2-Dichloroethene	156-59-2	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Chloroform	67-66-3	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.1-Trichloroethane	71-55-6	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Carbon Tetrachloride	56-23-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.2-Dichloroethane	107-06-2	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Trichloroethene	79-01-6	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.2-Trichloroethane	79-00-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Tetrachloroethene	127-18-4	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Hexachlorobutadiene	87-68-3	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
Chlorobenzene	108-90-7	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.4-Dichlorobenzene	106-46-7	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.2-Dichlorobenzene	95-50-1	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
1.2.4-Trichlorobenzene	120-82-1	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
^ **Sum of volatile chlorinated hydrocarbons**	----	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
^ **Sum of other chlorinated hydrocarbons**	----	0.50	mg/kg		<0.50	<0.50	<0.50	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated)									
2-Chlorophenol	95-57-8	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
2.4-Dichlorophenol	120-83-2	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
2.6-Dichlorophenol	87-65-0	0.50	mg/kg		<0.50	<0.50	<0.50	----	----
4-Chloro-3-methylphenol	59-50-7	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
2.4.5-Trichlorophenol	95-95-4	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
2.4.6-Trichlorophenol	88-06-2	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg		<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	----	----
Pentachlorophenol	87-86-5	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
^ **Sum of Phenols (halogenated)**	----	1.00	mg/kg		<1.00	<1.00	<1.00	----	----
EP075A: Phenolic Compounds (Non-halogenated)									
Phenol	108-95-2	1	mg/kg		<1	<1	<1	----	----
2-Methylphenol	95-48-7	1	mg/kg		<1	<1	<1	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg		<1	<1	<1	----	----
2-Nitrophenol	88-75-5	1	mg/kg		<1	<1	<1	----	----
2.4-Dimethylphenol	105-67-9	1	mg/kg		<1	<1	<1	----	----
2.4-Dinitrophenol	51-28-5	5	mg/kg		<5	<5	<5	----	----
4-Nitrophenol	100-02-7	5	mg/kg		<5	<5	<5	----	----
2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg		<5	<5	<5	----	----
Dinoseb	88-85-7	20	mg/kg		<20	<20	<20	----	----
2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	20	mg/kg		<20	<20	<20	----	----
^ **Sum of Phenols (non-halogenated)**	----	20	mg/kg		<20	<20	<20	----	----
EP075B: Polynuclear Aromatic Hydrocarbons									
Naphthalene	91-20-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acenaphthene	83-32-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Acenaphthylene	208-96-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluorene	86-73-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Phenanthrene	85-01-8	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Anthracene	120-12-7	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Fluoranthene	206-44-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Pyrene	129-00-0	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued									
Chrysene	218-01-9	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1.0	mg/kg		<1.0	<1.0	<1.0	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg		<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	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Sum of polycyclic aromatic hydrocarbons**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (zero)**	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ **Benzo(a)pyrene TEQ (half LOR)**	----	0.5	mg/kg		**0.6**	**0.6**	**0.6**	----	----
^ **Benzo(a)pyrene TEQ (LOR)**	----	0.5	mg/kg		**1.2**	**1.2**	**1.2**	----	----
EP075I: Organochlorine Pesticides									
alpha-BHC	319-84-6	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.03	mg/kg		<0.03	<0.03	<0.03	----	----
trans-Chlordane	5103-74-2	0.03	mg/kg		<0.03	<0.03	<0.03	----	----
Endosulfan 1	959-98-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDE	72-55-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endosulfan 2	33213-65-9	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDD	72-54-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
4.4`-DDT	50-29-3	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ **Sum of organochlorine pesticides**	----	0.10	mg/kg		<0.10	<0.10	<0.10	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					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	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-2	0.05	mg/kg		<0.05	<0.05	<0.05	----	----
^ **Chlordane**	57-74-9	0.10	mg/kg		<0.10	<0.10	<0.10	----	----
^ **Sum of other organochlorine pesticides**	----	0.03	mg/kg		<0.03	<0.03	<0.03	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	mg/kg		<20	<20	<20	----	----
C10 - C14 Fraction	----	50	mg/kg		<50	<50	<50	----	----
C6 - C10 Fraction	C6_C10	20	mg/kg		<20	<20	<20	----	----
C15 - C28 Fraction	----	100	mg/kg		<100	<100	<100	----	----
C29 - C36 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
>C10 - C16 Fraction	----	50	mg/kg		<50	<50	<50	----	----
>C16 - C34 Fraction	----	100	mg/kg		<100	<100	<100	----	----
>C34 - C40 Fraction	----	100	mg/kg		<100	<100	<100	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg		<50	<50	<50	----	----
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		<50	<50	<50	----	----
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg		<20	<20	<20	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg		<5.0	<5.0	<5.0	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg		<5	<5	<5	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg		<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	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg		<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	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg		<10.0	<10.0	<10.0	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									

Analytical Results

Sub-Matrix: SOIL
(Matrix: SOIL)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS	SX_OB_20220325_04_18_SS_Primary_ALS	SX_OB_20220324_08_07_SS_Primary_ALS	SX_OB_20220324_08_11_SS_Duplicate_ALS
				Sampling date / time	24-Mar-2022 20:13	25-Mar-2022 00:08	25-Mar-2022 04:18	24-Mar-2022 08:07	24-Mar-2022 08:11
					EM2205361-008	EM2205361-009	EM2205361-010	EM2205361-011	EM2205361-012
					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	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	10.0	µg/kg		<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	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	5.0	µg/kg		<5.0	<5.0	<5.0	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	50.0	µg/kg		<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	----	----
Sum of PFAS (WA DER List)	----	10.0	µg/kg		<10.0	<10.0	<10.0	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**118**	**119**	**106**	----	----
EP074S: VOC Surrogates (Ultra-Trace)									
1.2-Dichloroethane-D4	17060-07-0	0.1	%		**86.4**	**84.9**	**59.0**	----	----
Toluene-D8	2037-26-5	0.1	%		**97.3**	**101**	**64.2**	----	----
4-Bromofluorobenzene	460-00-4	0.1	%		**99.9**	**99.1**	**77.4**	----	----
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%		**94.4**	**103**	**90.8**	----	----
2-Chlorophenol-D4	93951-73-6	0.025	%		**96.2**	**105**	**85.6**	----	----
2.4.6-Tribromophenol	118-79-6	0.025	%		**85.2**	**96.5**	**80.3**	----	----
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%		**91.8**	**101**	**79.7**	----	----
1.2-Dichlorobenzene-D4	2199-69-1	0.025	%		**83.3**	**88.8**	**63.9**	----	----
2-Fluorobiphenyl	321-60-8	0.025	%		**89.2**	**100**	**82.5**	----	----
Anthracene-d10	1719-06-8	0.025	%		**89.4**	**98.8**	**82.7**	----	----
4-Terphenyl-d14	1718-51-0	0.025	%		**85.6**	**97.6**	**80.7**	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**106**	**92.0**	**92.8**	----	----
13C8-PFOA	----	0.0002	%		**102**	**99.7**	**97.4**	----	----

Analytical Results

Sub-Matrix: **SOIL**
(Matrix: **SOIL**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_12_18_SS_Primary_ALS	SX_OB_20220324_16_35_SS_Primary_ALS	SX_OB_20220324_16_27_SS_Triplicate_ALS	SX_OB_20220324_20_13_SS_Primary_ALS	SX_OB_20220325_00_08_SS_Primary_ALS
				Sampling date / time	24-Mar-2022 12:18	24-Mar-2022 16:35	24-Mar-2022 16:27	24-Mar-2022 20:13	25-Mar-2022 00:08
					EM2205361-013	**EM2205361-014**	**EM2205361-015**	**EM2205361-016**	**EM2205361-017**
					Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit		**9.7**	**9.6**	**9.7**	**9.5**	**9.5**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220325_04_18_SS_Primary_ALS	----	----	----	----
				Sampling date / time	25-Mar-2022 04:18	----	----	----	----
Compound	CAS Number	LOR	Unit	EM2205361-018	--------	--------	--------	--------	
				Result	----	----	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	**9.5**	**----**	**----**	**----**	**----**	

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	SX_OB_20220324_08_36_SB_Blank_ALS	SX_OB_20220324_08_33_SR_Rinsate_ALS	----	----	----
				Sampling date / time	24-Mar-2022 08:36	24-Mar-2022 08:33	----	----	----
					EM2205361-003	EM2205361-004	--------	--------	--------
					Result	Result	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.10	µg/L		<0.10	<0.10	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	<0.01	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	SX_OB_20220324_08_36_SB_Blank_ALS	SX_OB_20220324_08_33_SR_Rinsate_ALS	----	----	----
				Sampling date / time	24-Mar-2022 08:36	24-Mar-2022 08:33	----	----	----
Compound	CAS Number	LOR	Unit		EM2205361-003	EM2205361-004	--------	--------	--------
					Result	Result	----	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	<0.05	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	<0.01	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	<0.01	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		**103**	**102**	----	----	----
13C8-PFOA	----	0.02	%		**102**	**103**	----	----	----

Surrogate Control Limits

Sub-Matrix: **ASLP LEACHATE**

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

Sub-Matrix: **DI WATER LEACHATE**

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

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) 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**

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

QUALITY CONTROL REPORT

Work Order	: **EM2205361**	Page	: 1 of 31
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	: 25-Mar-2022
Order number	: ----	Date Analysis Commenced	: 28-Mar-2022
C-O-C number	: 20220325043559-ALS-13	Issue Date	: 01-Apr-2022
Sampler	: Luke D - EP Risk & Tina B Agon		
Site	: 20220325043559-ALS-13		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 18		
No. of samples analysed	: 18		

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

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

This Quality Control Report contains the following information:

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

Signatories

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

Signatories	*Position*	*Accreditation Category*
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	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: 4257736)									
EM2205308-002	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	7	7	0.0	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	10	8	32.0	No Limit
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	11	9	18.6	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	17	12	37.9	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	33	28	17.8	No Limit
EM2205308-018	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	15	18	13.2	No Limit
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	12	13	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	<5	<5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	21	24	11.7	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	8	8	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
		EG005T: Zinc	7440-66-6	5	mg/kg	44	45	0.0	No Limit
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4257739)									

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: 4257739) - continued									
EM2205361-008	SX_OB_20220324_20_13_SS_Primary_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	101	95	6.5	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	190	176	8.2	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	36	34	5.8	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	61	61	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	102	100	1.8	0% - 20%
EM2205366-015	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	24	23	0.0	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	3	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	5	6	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.0	No Limit
		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	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4259356)									
EM2205241-002	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.5	7.6	0.0	0% - 20%
EM2205361-005	SX_OB_20220324_12_18_SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.7	7.7	0.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4258300)									
EM2205308-017	Anonymous	EA055: Moisture Content	----	0.1	%	15.5	16.0	2.6	0% - 20%
EM2205324-004	Anonymous	EA055: Moisture Content	----	0.1	%	15.1	15.2	0.9	0% - 50%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4257737)									
EM2205308-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2205308-018	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: 4257738)									
EM2205361-008	SX_OB_20220324_20_13_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2205366-015	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: 4256974)									
EM2205241-002	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4256974) - continued									
EM2205324-004	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4258138)									
EM2205308-014	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EM2205242-016	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4258140)									
EM2205361-008	SX_OB_20220324_20_13_SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2205385-004	Anonymous	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	<1	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4256970)									
EM2205308-014	Anonymous	EK040T: Fluoride	16984-48-8	40	mg/kg	120	130	0.0	No Limit
EM2205361-007	SX_OB_20220324_16_27_SS_Triplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	540	480	10.7	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4256830)									
EM2205241-002	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2205361-009	SX_OB_20220325_00_08_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4252249)									
EM2205361-001	SX_OB_20220324_08_07_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
EP074H: Naphthalene (QC Lot: 4252249)									
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4252249)									
EM2205361-001	SX_OB_20220324_08_07_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

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: 4252249) - continued									
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	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: 4256828)									
EM2205241-002	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	<0.03	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	<0.05	<0.05	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-90-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EM2205361-009	SX_OB_20220325_00_08_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	4901-51-3/58-90-2	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: 4256828)									
EM2205241-002	Anonymous	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

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: 4256828) - continued									
EM2205241-002	Anonymous	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	<5	<5	0.0	No Limit
		EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	<5	0.0	No Limit
EM2205361-009	SX_OB_20220325_00_08_ SS_Primary_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: 4256828)									
EM2205241-002	Anonymous	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	1.7	1.2	35.6	No Limit
		EP075-EM: Anthracene	120-12-7	0.5	mg/kg	0.6	0.5	23.9	No Limit
		EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	7.1	4.5	45.3	0% - 50%
		EP075-EM: Pyrene	129-00-0	0.5	mg/kg	6.8	4.3	45.6	0% - 50%
		EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	3.8	2.4	45.1	No Limit
		EP075-EM: Chrysene	218-01-9	0.5	mg/kg	2.9	1.8	43.3	No Limit
		EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	3.3	2.1	44.7	No Limit
		EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	1.2	0.8	38.5	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	1.1	0.8	35.6	No Limit
		EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	5.5	3.5	45.3	No Limit
EM2205361-009	SX_OB_20220325_00_08_ 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

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: 4256828) - continued									
EM2205361-009	SX_OB_20220325_00_08_SS_Primary_ALS	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: 4256828)									
EM2205241-002	Anonymous	EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	<0.03	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	<0.03	<0.03	0.0	No Limit
		EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	<0.03	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
EM2205361-009	SX_OB_20220325_00_08_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

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: 4256828) - continued									
EM2205361-009	SX_OB_20220325_00_08_SS_Primary_ALS	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: 4252249)									
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4256829)									
EM2205241-002	Anonymous	EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	140	29.8	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	140	94.7	No Limit
EM2205361-009	SX_OB_20220325_00_08_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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4252249)									
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_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: 4256829)									
EM2205241-002	Anonymous	EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	140	200	33.5	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	140	200	35.3	No Limit
EM2205361-009	SX_OB_20220325_00_08_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

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4259525)									
EM2205361-001	SX_OB_20220324_08_07_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
EM2205361-010	SX_OB_20220325_04_18_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: 4259525)									
EM2205361-001	SX_OB_20220324_08_07_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 (PFTrDA)	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
EM2205361-010	SX_OB_20220325_04_18_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 (PFTrDA)	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: 4259525)									

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: 4259525) - continued									
EM2205361-001	SX_OB_20220324_08_07_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
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<5.0 µg/kg	<0.0050	0.0	No Limit
EM2205361-010	SX_OB_20220325_04_18_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
		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: 4259525)									
EM2205361-001	SX_OB_20220324_08_07_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
EM2205361-010	SX_OB_20220325_04_18_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

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4259525) - continued									
EM2205361-010	SX_OB_20220325_04_18_SS_Primary_ALS	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: 4259525)									
EM2205361-001	SX_OB_20220324_08_07_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
EM2205361-010	SX_OB_20220325_04_18_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**

				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: 4258317)									
EM2205510-001	Anonymous	EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	1.82	1.96	7.5	0% - 20%
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	2.05	2.09	1.9	0% - 20%
		EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.31	0.34	8.5	0% - 50%
		EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.29	0.31	6.8	0% - 50%
		EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.16	0.09	53.3	No Limit
		EP231X-INJ: 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: 4260789)									
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_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
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EM2205464-001	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: 4260789) - continued									
EM2205464-001	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: 4260790)									
EM2205361-012	SX_OB_20220324_08_11_ SS_Duplicate_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
		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: 4258317)									
EM2205510-001	Anonymous	EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.46	0.47	2.9	0% - 20%
		EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.35	0.38	10.0	0% - 50%
		EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	1.16	1.06	9.0	0% - 20%
		EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.30	0.32	6.4	0% - 50%
		EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.03	0.03	0.0	No Limit
		EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	0.17	<0.10	53.3	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4260789)									
EM2205361-002	SX_OB_20220324_08_11_ SS_Duplicate_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
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EM2205464-001	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

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: 4260789) - continued									
EM2205464-001	Anonymous	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: 4260790)									
EM2205361-012	SX_OB_20220324_08_11_SS_Duplicate_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
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4258317)									
EM2205510-001	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 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: 4260789)									
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	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 (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4260789) - continued									
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	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
EM2205464-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4260790)									
EM2205361-012	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	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: 4258317)									

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: 4258317) - continued									
EM2205510-001	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.71	0.74	3.2	0% - 50%
		EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X-INJ: 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: 4260789)									
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_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
EM2205464-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4260790)									
EM2205361-012	SX_OB_20220324_08_11_SS_Duplicate_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: 4258317)									
EM2205510-001	Anonymous	EP231X-INJ: Sum of PFAS	----	0.01	µg/L	7.81	7.79	0.3	0% - 20%
		EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	3.87	4.05	4.5	0% - 20%
		EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	7.33	7.36	0.4	0% - 20%
EP231P: PFAS Sums (QC Lot: 4260789)									

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: 4260789) - continued									
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	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	<0.05	<0.05	0.0	No Limit
EM2205464-001	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: 4260790)									
EM2205361-012	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	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	<0.05	<0.05	0.0	No Limit

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

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

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4257736)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	83.6	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	53.2	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	90.1	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	80.0	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	78.6	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	86.2	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	84.3	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	74.0	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	90.9	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	72.9	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4257739)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	94.0	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	60.4	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	102	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	91.9	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	87.2	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	87.4	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	96.9	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	78.5	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	99.5	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	77.3	70.0	130
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4258626)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	6.7	----	----	----	----
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4259356)								
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: 4257737)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	93.8	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4257738)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	89.8	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4256974)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	74.9	70.0	130

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4258138)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	81.1	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4258140)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	20 mg/kg	84.9	70.0	130
EK040T: Fluoride Total (QCLot: 4256970)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	108	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4256830)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	124	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4252249)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	90.6	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	88.8	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	89.8	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	4.2 mg/kg	88.0	65.2	112
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	87.5	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	87.6	68.4	110
EP074H: Naphthalene (QCLot: 4252249)								
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	95.4	72.3	114
EP074I: Volatile Halogenated Compounds (QCLot: 4252249)								
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	88.0	47.0	138
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	93.0	57.6	125
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	90.5	72.3	115
EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	92.4	60.5	122
EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	90.2	70.3	112
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	94.2	66.6	115
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	93.1	64.4	122
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	92.8	58.4	127
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	97.0	72.9	114
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	91.9	64.7	115
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	94.2	72.6	116
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	91.4	60.0	119
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	91.8	71.8	116
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	93.6	66.1	116
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	89.2	39.8	128
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	93.1	70.3	113
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	94.4	62.6	113
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	92.5	70.8	110
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	94.4	48.4	120
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4256828)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4256828) - continued								
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	93.5	74.5	126
EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	89.3	72.7	126
EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	89.2	73.5	132
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	87.0	72.8	128
EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	91.7	73.3	134
EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	89.3	72.4	128
EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	90.2	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	94.3	71.9	128
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	83.2	54.4	135
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4256828)								
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	96.7	71.5	130
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	93.3	73.4	129
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	88.7	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	87.6	70.9	133
EP075-EM: 2.4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	90.3	71.8	132
EP075-EM: 2.4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	94.7	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	84.3	65.3	134
EP075-EM: 2-Methyl-4.6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	81.3	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	83.2	62.0	128
EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	74.2	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4256828)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	90.8	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	88.8	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	89.3	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	93.8	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	89.1	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	89.1	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	86.9	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	87.7	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	96.6	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	97.0	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	88.4	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	87.8	65.1	130
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	88.1	72.1	134
EP075-EM: Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	88.6	72.9	135
EP075-EM: Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	87.4	71.3	134
EP075I: Organochlorine Pesticides (QCLot: 4256828)								

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075I: Organochlorine Pesticides (QCLot: 4256828) - continued								
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	88.4	71.0	129
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	88.4	74.8	126
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	89.0	75.7	130
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	90.2	70.8	130
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	93.4	76.5	134
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	91.3	75.5	131
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	93.9	76.8	130
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	92.4	73.6	130
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	88.0	75.0	133
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	88.8	75.3	131
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	91.1	69.4	134
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	87.9	71.0	132
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	88.7	78.0	133
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	94.0	69.0	143
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	68.9	55.7	145
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	90.4	71.4	135
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	91.4	74.8	134
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	93.5	70.2	135
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	91.4	77.7	133
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	93.2	63.6	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4252249)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	95.0	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4256829)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	760 mg/kg	93.9	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	3270 mg/kg	93.1	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1550 mg/kg	92.6	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	92.8	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4252249)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	92.5	59.9	119
EP074-UT: C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4256829)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1110 mg/kg	97.3	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	4180 mg/kg	92.3	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	290 mg/kg	109	73.3	136
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	94.3	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4259525)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	104	72.0	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4259525) - continued								
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	93.8	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	80.8	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	109	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	99.8	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	94.2	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4259525)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	90.6	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.5	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.6	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.3	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.3	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.6	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.5	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.0	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.5	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	105	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	77.6	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4259525)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	76.8	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	80.5	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	88.7	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	107	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	103	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.4	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4259525)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	96.5	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	92.6	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	112	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	117	70.0	130
EP231P: PFAS Sums (QCLot: 4259525)								
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	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258317)								
EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.444 µg/L	95.2	72.0	130
EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.47 µg/L	96.1	71.0	127
EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.457 µg/L	96.6	68.0	131
EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.477 µg/L	99.9	69.0	134
EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.465 µg/L	102	65.0	140
EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.482 µg/L	108	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4260789)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	89.6	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	103	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	104	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	100	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	99.6	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	87.1	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4260790)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	107	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	93.0	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	95.4	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	96.3	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	94.8	65.0	140
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	107	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258317)								
EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.10	2.5 µg/L	101	73.0	129
EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.5 µg/L	102	72.0	129
EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.5 µg/L	93.0	72.0	129
EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.5 µg/L	96.3	72.0	130
EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.5 µg/L	96.8	71.0	133
EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.5 µg/L	94.9	69.0	130
EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.5 µg/L	90.2	71.0	129
EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.5 µg/L	99.9	69.0	133
EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.5 µg/L	101	72.0	134
EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.5 µg/L	97.3	65.0	144
EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	1.25 µg/L	98.6	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4260789)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	92.2	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	102	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	97.3	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	96.6	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	97.4	71.0	133

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4260789) - continued								
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	101	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	103	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	105	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	93.5	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.5	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4260790)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	94.0	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	92.4	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
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	100	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	101	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	83.4	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	92.0	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	103	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	105	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	92.4	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4258317)								
EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.5 µg/L	91.7	67.0	137
EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	1.25 µg/L	99.2	68.0	141
EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	1.25 µg/L	102	70.0	130
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	1.25 µg/L	96.6	70.0	130
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	1.25 µg/L	103	70.0	130
EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.5 µg/L	94.3	65.0	136
EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.5 µg/L	89.2	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4260789)								
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	113	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	106	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.9	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	107	70.0	130

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4260789) - continued								
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	119	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	106	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4260790)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	111	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	118	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	86.7	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	90.3	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	114	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	122	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	101	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4258317)								
EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.469 µg/L	100	63.0	143
EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.476 µg/L	110	64.0	140
EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.48 µg/L	102	67.0	138
EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.483 µg/L	88.6	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4260789)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	101	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	97.7	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	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	90.9	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4260790)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	98.0	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	98.2	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	120	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	124	70.0	130
EP231P: PFAS Sums (QCLot: 4258317)								
EP231X-INJ: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X-INJ: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X-INJ: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4260789)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231P: PFAS Sums (QCLot: 4260789) - continued								
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----
EP231P: PFAS Sums (QCLot: 4260790)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4257736)							
EM2205308-004	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	85.1	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	82.1	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	79.6	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	96.5	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	81.0	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	79.3	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	98.0	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4257739)							
EM2205361-009	SX_OB_20220325_00_08_SS_Primary_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	79.9	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	96.6	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	84.3	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	98.6	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	96.3	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	94.0	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	92.0	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4257737)							
EM2205308-004	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	100	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4257738)							
EM2205361-009	SX_OB_20220325_00_08_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	108	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4256974)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4256974) - continued							
EM2205241-017	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	76.3	58.0	114
EM2205241-017	Anonymous	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	90.8	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4258138)							
EM2205241-017	Anonymous	EK026SF: Total Cyanide	57-12-5	20 mg/kg	94.6	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4258140)							
EM2205361-009	SX_OB_20220325_00_08_SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	92.9	70.0	130
EK040T: Fluoride Total (QCLot: 4256970)							
EM2205308-021	Anonymous	EK040T: Fluoride	16984-48-8	400 mg/kg	97.9	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4256830)							
EM2205353-011	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	124	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4252249)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	80.1	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	89.8	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4252249)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	2 mg/kg	44.1	38.4	145
		EP074-UT: Trichloroethene	79-01-6	2 mg/kg	77.1	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	84.5	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4256828)							
EM2205241-017	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	100	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	85.5	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	61.4	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4256828)							
EM2205241-017	Anonymous	EP075-EM: Phenol	108-95-2	3 mg/kg	88.9	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	77.8	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4256828)							
EM2205241-017	Anonymous	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	68.6	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	80.3	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4252249)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	80.5	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4256829)							
EM2205353-007	Anonymous	EP071-EM: C10 - C14 Fraction	----	760 mg/kg	96.0	71.3	126
		EP071-EM: C15 - C28 Fraction	----	3270 mg/kg	95.0	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1550 mg/kg	94.0	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5580 mg/kg	95.3	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4252249)							

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4252249) - continued							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	78.8	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4256829)							
EM2205353-007	Anonymous	EP071-EM: >C10 - C16 Fraction	----	1110 mg/kg	99.3	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	4180 mg/kg	94.0	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	290 mg/kg	109	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5580 mg/kg	96.4	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4259525)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	90.3	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	84.9	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	97.1	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	105	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	105	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4259525)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	88.6	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	94.7	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	90.3	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	94.5	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	94.9	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	93.2	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	94.9	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	77.2	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	84.2	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	92.0	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	82.4	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4259525)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	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	92.0	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	79.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	80.3	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	109	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	96.1	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	89.0	61.0	139

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4259525)							
EM2205361-002	SX_OB_20220324_08_11_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	88.5	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	94.4	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	115	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	116	70.0	130

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	Matrix Spike (MS) Report: SpikeRecovery(%) MS	Acceptable Limits (%) Low	Acceptable Limits (%) High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4258317)							
EM2205510-002	Anonymous	EP231X-INJ: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.444 µg/L	# 63.6	72.0	130
		EP231X-INJ: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.47 µg/L	# 59.8	71.0	127
		EP231X-INJ: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.457 µg/L	# Not Determined	68.0	131
		EP231X-INJ: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.477 µg/L	90.7	69.0	134
		EP231X-INJ: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.465 µg/L	# Not Determined	65.0	140
		EP231X-INJ: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.482 µg/L	106	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4260789)							
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	95.7	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	96.1	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	101	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	105	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	87.9	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	82.1	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4260790)							
EM2205361-011	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	102	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	90.2	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	94.2	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	99.8	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	98.9	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	105	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258317)							
EM2205510-002	Anonymous	EP231X-INJ: Perfluorobutanoic acid (PFBA)	375-22-4	2.5 µg/L	109	73.0	129
		EP231X-INJ: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.5 µg/L	73.4	72.0	129
		EP231X-INJ: Perfluorohexanoic acid (PFHxA)	307-24-4	0.5 µg/L	# Not Determined	72.0	129
		EP231X-INJ: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.5 µg/L	# 67.8	72.0	130
		EP231X-INJ: Perfluorooctanoic acid (PFOA)	335-67-1	0.5 µg/L	# 59.3	71.0	133
		EP231X-INJ: Perfluorononanoic acid (PFNA)	375-95-1	0.5 µg/L	95.4	69.0	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
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4258317) - continued							
EM2205510-002	Anonymous	EP231X-INJ: Perfluorodecanoic acid (PFDA)	335-76-2	0.5 µg/L	92.7	71.0	129
		EP231X-INJ: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.5 µg/L	102	69.0	133
		EP231X-INJ: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.5 µg/L	108	72.0	134
		EP231X-INJ: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.5 µg/L	92.6	65.0	144
		EP231X-INJ: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	1.25 µg/L	106	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4260789)							
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	88.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	106	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	105	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	96.2	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	102	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	106	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	102	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	93.8	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	95.8	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	85.5	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	102	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4260790)							
EM2205361-011	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	93.9	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	93.0	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	95.3	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	97.4	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	99.1	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	82.5	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	87.5	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	96.1	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	110	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	82.1	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4258317)							
EM2205510-002	Anonymous	EP231X-INJ: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.5 µg/L	101	67.0	137
		EP231X-INJ: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	1.25 µg/L	110	68.0	141
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	1.25 µg/L	107	70.0	130
		EP231X-INJ: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	1.25 µg/L	101	70.0	130
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	1.25 µg/L	104	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: 4258317) - continued							
EM2205510-002	Anonymous	EP231X-INJ: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.5 µg/L	110	65.0	136
		EP231X-INJ: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.5 µg/L	111	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4260789)							
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	107	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	123	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	120	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	95.6	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	115	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	96.0	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	104	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4260790)							
EM2205361-011	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	108	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	111	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	96.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	92.2	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	113	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	114	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	107	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4258317)							
EM2205510-002	Anonymous	EP231X-INJ: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.469 µg/L	109	63.0	143
		EP231X-INJ: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.476 µg/L	# 54.3	64.0	140
		EP231X-INJ: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.48 µg/L	114	67.0	138
		EP231X-INJ: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.483 µg/L	105	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4260789)							
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	98.9	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	106	64.0	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4260789) - continued							
EM2205361-001	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	102	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	74.8	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4260790)							
EM2205361-011	SX_OB_20220324_08_07_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	96.6	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	103	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	110	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	98.3	70.0	130

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2205361**	Page	: 1 of 13
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: DAVID LAWSON	Telephone	: +6138549 9600
Project	: JC0927	Date Samples Received	: 25-Mar-2022
Site	: 20220325043559-ALS-13	Issue Date	: 01-Apr-2022
Sampler	: Luke D - EP Risk & Tina B Agon	No. of samples received	: 18
Order number	: ----	No. of samples analysed	: 18

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

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

Summary of Outliers

Outliers : Quality Control Samples

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

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2205510--002	Anonymous	**Perfluorobutane sulfonic acid (PFBS)**	375-73-5	63.6 %	72.0-130%	**Recovery less than lower data quality objective**
EP231A: Perfluoroalkyl Sulfonic Acids	EM2205510--002	Anonymous	**Perfluoropentane sulfonic acid (PFPeS)**	2706-91-4	59.8 %	71.0-127%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2205510--002	Anonymous	**Perfluoroheptanoic acid (PFHpA)**	375-85-9	67.8 %	72.0-130%	**Recovery less than lower data quality objective**
EP231B: Perfluoroalkyl Carboxylic Acids	EM2205510--002	Anonymous	**Perfluorooctanoic acid (PFOA)**	335-67-1	59.3 %	71.0-133%	**Recovery less than lower data quality objective**
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2205510--002	Anonymous	**6:2 Fluorotelomer sulfonic acid (6:2 FTS)**	27619-97-2	54.3 %	64.0-140%	**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_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	31-Mar-2022	✓	**31-Mar-2022**	01-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA001)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	01-Apr-2022	✓	**31-Mar-2022**	01-Apr-2022	✓
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**----**	----	----	**30-Mar-2022**	07-Apr-2022	✓
Soil Glass Jar - Unpreserved (EA055)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**----**	----	----	**30-Mar-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
EG005(ED093)T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	20-Sep-2022	✓	**31-Mar-2022**	20-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	21-Sep-2022	✓	**31-Mar-2022**	21-Sep-2022	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	21-Apr-2022	✓	**31-Mar-2022**	21-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG035T)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	22-Apr-2022	✓	**31-Mar-2022**	22-Apr-2022	✓
EG048: Hexavalent Chromium (Alkaline Digest)							
Soil Glass Jar - Unpreserved (EG048G)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	21-Apr-2022	✓	**31-Mar-2022**	06-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG048G)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	22-Apr-2022	✓	**31-Mar-2022**	06-Apr-2022	✓
EK026SF: Total CN by Segmented Flow Analyser							
Soil Glass Jar - Unpreserved (EK026SF)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**31-Mar-2022**	13-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	08-Apr-2022	✓	**31-Mar-2022**	13-Apr-2022	✓
EK040T: Fluoride Total							
Soil Glass Jar - Unpreserved (EK040T)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	21-Apr-2022	✓	**01-Apr-2022**	21-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK040T)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	22-Apr-2022	✓	**01-Apr-2022**	22-Apr-2022	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	21-Sep-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-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-Dla-P)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**----**	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-Dla-P)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	21-Sep-2022	✓	**----**	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	08-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	31-Mar-2022	✓	**30-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	01-Apr-2022	✓	**30-Mar-2022**	01-Apr-2022	✓
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	31-Mar-2022	✓	**30-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	01-Apr-2022	✓	**30-Mar-2022**	01-Apr-2022	✓
EP074I: Volatile Halogenated Compounds							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	31-Mar-2022	✓	**30-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	01-Apr-2022	✓	**30-Mar-2022**	01-Apr-2022	✓
EP075A: Phenolic Compounds (Halogenated)							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	08-Apr-2022	✓	**30-Mar-2022**	09-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
EP075A: Phenolic Compounds (Non-halogenated)							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	08-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	08-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP075I: Organochlorine Pesticides							
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	07-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	08-Apr-2022	✓	**30-Mar-2022**	09-May-2022	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	31-Mar-2022	✓	**30-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	01-Apr-2022	✓	**30-Mar-2022**	01-Apr-2022	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**30-Mar-2022**	31-Mar-2022	✓	**30-Mar-2022**	31-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**30-Mar-2022**	01-Apr-2022	✓	**30-Mar-2022**	01-Apr-2022	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	20-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
HDPE Soil Jar (EP231X)							
SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	21-Sep-2022	✓	**31-Mar-2022**	10-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_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	20-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	21-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	20-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	21-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	20-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	21-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS	**24-Mar-2022**	**31-Mar-2022**	20-Sep-2022	✓	**31-Mar-2022**	10-May-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**25-Mar-2022**	**31-Mar-2022**	21-Sep-2022	✓	**31-Mar-2022**	10-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

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-INJ)							
SX_OB_20220324_08_36_SB_Blank_ALS, SX_OB_20220324_08_33_SR_Rinsate_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	20-Sep-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS, SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS, SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS, SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**30-Mar-2022**	**31-Mar-2022**	26-Sep-2022	✓	**31-Mar-2022**	26-Sep-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X-INJ)							
SX_OB_20220324_08_36_SB_Blank_ALS, SX_OB_20220324_08_33_SR_Rinsate_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	20-Sep-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS, SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS, SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS, SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**30-Mar-2022**	**31-Mar-2022**	26-Sep-2022	✓	**31-Mar-2022**	26-Sep-2022	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X-INJ)							
SX_OB_20220324_08_36_SB_Blank_ALS, SX_OB_20220324_08_33_SR_Rinsate_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	20-Sep-2022	✓
HDPE (no PTFE) (EP231X)							
SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS, SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS, SX_OB_20220324_08_07_SS_Primary_ALS, SX_OB_20220324_08_11_SS_Duplicate_ALS, SX_OB_20220324_12_18_SS_Primary_ALS, SX_OB_20220324_16_35_SS_Primary_ALS, SX_OB_20220324_16_27_SS_Triplicate_ALS, SX_OB_20220324_20_13_SS_Primary_ALS, SX_OB_20220325_00_08_SS_Primary_ALS, SX_OB_20220325_04_18_SS_Primary_ALS	**30-Mar-2022**	**31-Mar-2022**	26-Sep-2022	✓	**31-Mar-2022**	26-Sep-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-INJ)								
SX_OB_20220324_08_36_SB_Blank_ALS,	SX_OB_20220324_08_33_SR_Rinsate_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	20-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220324_08_07_SS_Primary_ALS,	SX_OB_20220324_08_11_SS_Duplicate_ALS,	**30-Mar-2022**	**31-Mar-2022**	26-Sep-2022	✓	**31-Mar-2022**	26-Sep-2022	✓
SX_OB_20220324_12_18_SS_Primary_ALS,	SX_OB_20220324_16_35_SS_Primary_ALS,							
SX_OB_20220324_16_27_SS_Triplicate_ALS,	SX_OB_20220324_20_13_SS_Primary_ALS,							
SX_OB_20220325_00_08_SS_Primary_ALS,	SX_OB_20220325_04_18_SS_Primary_ALS,							
SX_OB_20220324_08_07_SS_Primary_ALS,	SX_OB_20220324_08_11_SS_Duplicate_ALS,							
SX_OB_20220324_12_18_SS_Primary_ALS,	SX_OB_20220324_16_35_SS_Primary_ALS,							
SX_OB_20220324_16_27_SS_Triplicate_ALS,	SX_OB_20220324_20_13_SS_Primary_ALS,							
SX_OB_20220325_00_08_SS_Primary_ALS,	SX_OB_20220325_04_18_SS_Primary_ALS							
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X-INJ)								
SX_OB_20220324_08_36_SB_Blank_ALS,	SX_OB_20220324_08_33_SR_Rinsate_ALS	**24-Mar-2022**	**30-Mar-2022**	20-Sep-2022	✓	**30-Mar-2022**	20-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220324_08_07_SS_Primary_ALS,	SX_OB_20220324_08_11_SS_Duplicate_ALS,	**30-Mar-2022**	**31-Mar-2022**	26-Sep-2022	✓	**31-Mar-2022**	26-Sep-2022	✓
SX_OB_20220324_12_18_SS_Primary_ALS,	SX_OB_20220324_16_35_SS_Primary_ALS,							
SX_OB_20220324_16_27_SS_Triplicate_ALS,	SX_OB_20220324_20_13_SS_Primary_ALS,							
SX_OB_20220325_00_08_SS_Primary_ALS,	SX_OB_20220325_04_18_SS_Primary_ALS,							
SX_OB_20220324_08_07_SS_Primary_ALS,	SX_OB_20220324_08_11_SS_Duplicate_ALS,							
SX_OB_20220324_12_18_SS_Primary_ALS,	SX_OB_20220324_16_35_SS_Primary_ALS,							
SX_OB_20220324_16_27_SS_Triplicate_ALS,	SX_OB_20220324_20_13_SS_Primary_ALS,							
SX_OB_20220325_00_08_SS_Primary_ALS,	SX_OB_20220325_04_18_SS_Primary_ALS							

Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

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

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	37	**10.81**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	40	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	20	**5.00**	**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	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	37	**5.41**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-Dla-P	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	20	**5.00**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	37	**5.41**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**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		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	1	20	**5.00**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	40	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	37	**5.41**	**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	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	1	8	**12.50**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

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

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	3	20	**15.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	**11.11**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	20	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X-INJ	1	9	**11.11**	**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 CaCl2 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 CaCl2 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 (SnCl2) (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 SnCl2 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-INJ	WATER	In house: Direct injection analysis of fresh waters after dilution (1:1) with mobile phase solvent. Analysis by LC-Electrospray-MS-MS, Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. 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.

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 CaCl2 extract	EA001-PR	SOIL	In house: Referenced to Rayment and Lyons 4B1, 10 g of soil is mixed with 50 mL of 0.01M CaCl2 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, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

Preparation Methods	Method	Matrix	Method Descriptions
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	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.
Preparation for PFAS in water.	EP231-PR	WATER	Method presumes direct injection without workup. Preparation includes addition of internal standard and surrogate, and filtration prior to analysis.