

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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1. Motherhub Summary

Source TBM/Bin at Pivot	1	Source Geological Domain	1
Approx. Source Tunnel Chainage From	124	Approx. Source Tunnel Chainage To	147
Approx. Rings From	53	Approx. Rings To	63
Foaming Agent	TamSoil 287AC	Water Source	Potable (City West Water)
For BSF Holding Bay No:	B05.01	Start of Filling From (Time / date)	12/03/2022
Tonnes Put in Holding Bay No:	7794.22	Finish of Filling (Time / Date)	15/03/2022
Classified Volume (LCM)	4000	Spoil Classification Decision	NPIW Containment
Sampling Ratio (samples per LCM)	1: 105.26	Approx. Bank Cubic Meters (BCM)	4397.86

2. Agon Spoil Classification Decision

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

3. Agon Spoil Classification Assessment

3.1 Applicable Samples

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

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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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Table 3.1 - Applicable Sample ID's

Table 3.1 - 1 Applicable Sample ID's

Applicable Spoil Sample ID's		
SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS	SX_OB_20220315_03_53_SS_Primary_EUF
SX_OB_20220312_20_04_SS_Primary_EUF	SX_OB_20220314_00_11_SS_Primary_EUF	SX_OB_20220315_03_57_SS_Primary_ALS
SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220314_03_57_SS_Primary_EUF	SX_OB_20220313_08_53_SS_Duplicate_ALS
SX_OB_20220313_00_03_SS_Primary_EUF	SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220313_08_54_SS_Triplicate_EUF
SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220313_15_48_SS_Duplicate_EUF
SX_OB_20220313_04_06_SS_Primary_EUF	SX_OB_20220314_08_13_SS_Primary_EUF	SX_OB_20220313_15_49_SS_Triplicate_ALS
SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220314_11_54_SS_Primary_EUF	SX_OB_20220314_08_00_SS_Duplicate_ALS
SX_OB_20220313_09_00_SS_Primary_EUF	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_08_01_SS_Triplicate_EUF
SX_OB_20220313_11_47_SS_Primary_EUF	SX_OB_20220314_15_42_SS_Primary_EUF	SX_OB_20220314_15_43_SS_Duplicate_EUF
SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
SX_OB_20220313_15_44_SS_Primary_EUF	SX_OB_20220314_20_00_SS_Primary_EUF	
SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	
SX_OB_20220313_20_01_SS_Primary_EUF	SX_OB_20220315_00_00_SS_Primary_ALS	
SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220315_00_04_SS_Primary_EUF	
Total Sample Numbers	38	Ratio Acceptable
Primary Sample Numbers	30	Yes
Classified Volume (LCM)	4000 m ³	
Volume: Sample Number Ratio (Samples per LCM)	1: 105.26	

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001 01</u>
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3.3 Selection of the Spoil Sample Testing Regime

Table 3.3 - 1 Selection of the Spoil Sample Testing Regime

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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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3.4 Spoil Compliance with SAQP Criteria for Containment Cell

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

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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
---------------------------------------	--------------------------------	---

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 primary samples	Sample: LCM Ratio	No > LOR	Min	Mean	95% UCL on Mean	Max	Limiting Criteria for NPIW Containment	Comment
Arsenic	mg/kg	2	30	1: 105.26	22	14	25.3	27.3	44	20	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Chromium (Hexavalent)	mg/kg	1	30	1: 105.26	4	<0.5	0.58	N/A	1.2	1	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)
Nickel	mg/kg	5	30	1: 105.26	30	139	183	193	240	60	NPIW-Containment - considered to be naturally occurring chemical, see comment 1 (Section 4)

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
---------------------------------------	--------------------------------	---

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	

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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Table 3.4 - 4 PFAS Parameter Concentrations & Spoil Suitability for Containment

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	Spoil Category for PFAS
Total PFAS Concentrations										
Total PFOS	ug/kg	5	30	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFOA	ug/kg	5	30	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
Total PFHxS	ug/kg	5	30	0	N/A	N/A	N/A	<5	N/A	NPIW-Containment
ASLP (pH= 5) PFAS Concentrations										
PFOA	ug/L	0.01	30	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	30	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment
ASLP (pH= 7) PFAS Concentrations										
PFOA	ug/L	0.01	30	0	N/A	N/A	N/A	<0.01	56	NPIW-Containment
PFOS+PFHxS	ug/L	0.01	30	0	N/A	N/A	N/A	<0.01	7	NPIW-Containment

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001 01</u>
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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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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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												

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
---------------------------------------	--------------------------------	---

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	

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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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												

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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4. Comments and Limitations

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

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
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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 not considered to be anthropogenic sources of CrVI
- The ratio of tests reported above the laboratory LOR of 0.5 mg/kg was 15 out of 84 tests
- The ratio of tests where CrVI was above 1mg/kg was 3 in 84 samples
- The maximum reported concentration was 2.8mg/kg
- The 95%UCLave was 0.439

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

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

- *No potential CrVI sources have been identified in the vicinity of the sampling locations that reported the CrVI concentrations.*
- *Similar concentrations of CrVI were reported in the Older Volcanics on the MMRP, that were deemed to be naturally occurring.*
- *The 2017 Golder report concluded that enriched arsenic concentrations in the Older Volcanics on WGT*
- *Corresponded with enriched vanadium indicating that the arsenic is likely associated with geochemical enrichment rather than added contamination. The elevated CrVI is also found through this area deemed to be geochemically enriched.*
- *There were limited exceedances of CrVI in the groundwater, which suggested no evidence of an anthropogenic source or Potential pathway from the surface*

TBM Spoil Waste Categorisation Report

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

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

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

Unit	Element Exceeding Criteria	Count	Detects	Min	Max	Mean	Median	Standard Deviation	Count of Exceedance	95% UCL	Fill Material Upper Limit	Victorian Background Soil Database Soil greater than 0.6 m below surface				Findings		Classification as PIW
												Count	Min#	Max	Mean	95% UCL Statistical Assessment	Victorian Soil Database Assessment	
Older Volcanics	Fluoride	84	1	50	600	204	185	109	2	225.1	450	92	<100	790	283	Not Exceeding	Natural Origin	No Affect
	Arsenic	101	84	<4	860	33	7	116	25	84.6	20	994	<10	1200	18	Exceeding	Natural Origin	No Affect
	Cadmium	103	6	<0.1	3	0.52	0.5	0.41	2	NA	3	-	-	-	-	NA	No Data	No Affect
	Chromium (VI)	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

2.	Loose Cubic metres (LCM) to mass (tonnes) conversion ratio used is 1 LCM:1.6 tonnes
3.	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.
4.	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.

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001_01</u>
-----------------------------------	-------------------------	---

5.	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.
6.	This report should be read in full.
7.	Test result outcomes can lead to two classification possibilities, however the classification decision follows the preference of the waste management hierarchy.

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001 01</u>
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5. Attachments

ATTACHMENT A: TABULATED RESULTS

ATTACHMENT B: 95% UCL AVE CALCULATIONS

ATTACHMENT C: LABORATORY CERTIFICATES

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001 01</u>
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ATTACHMENT A: TABULATED RESULTS

	Metals								
	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel
	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
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 PIW Category B Leached Upper Limits									
EPA Victoria IWRG621 PIW Category B Upper Limits	2,000	400	20,000		2,000	6,000	300	4,000	12,000
EPA Victoria IWRG621 PIW Category C Leached Upper Limits									
EPA Victoria IWRG621 PIW Category C Upper Limits	500	100	5,000		500	1,500	75	1,000	3,000
EPA Victoria IWRG621 NPIW Upper Limits	20	3	100		1	300	1	40	60

Location Code	Field ID	Sample Code	Date	Matrix Description	Lab Report Number	Lab Name	Sample Type	Parent Sample	Arsenic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526006	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		20	<1	57	103	<1.0	<5	<0.1	<5	156
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526030	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28328	12/03/2022	Domain 1	871152	MGT	Normal		30	<0.4	87	170	1.1	7.0	<0.1	<5	200
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28352	12/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28376	12/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526007	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		21	<1	65	100	<1.0	<5	<0.1	<5	158
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526031	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28329	13/03/2022	Domain 1	871152	MGT	Normal		23	<0.4	61	120	1.2	<5	<0.1	<5	170
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28353	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28377	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526008	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		20	<1	56	96	<1.0	<5	<0.1	<5	161
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526032	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28330	13/03/2022	Domain 1	871152	MGT	Normal		29	<0.4	78	140	<1	5.9	<0.1	<5	220
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28354	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28378	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526009	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		19	<1	58	94	<1.0	<5	<0.1	<5	151
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526033	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28332	13/03/2022	Domain 1	871152	MGT	Normal		26	<0.4	67	130	<1	5.4	<0.1	<5	200
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28356	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28380	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28333	13/03/2022	Domain 1	871152	MGT	Normal		44	<0.4	78	140	<1	6.8	<0.1	<5	240
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28357	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28381	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526011	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		21	<1	58	102	<1.0	<5	<0.1	<5	158
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526035	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28334	13/03/2022	Domain 1	871152	MGT	Normal		28	<0.4	81	130	1.1	6.1	<0.1	<5	230
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28358	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28382	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526013	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		17	<1	56	102	<1.0	<5	<0.1	<5	161
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526037	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28336	13/03/2022	Domain 1	871152	MGT	Normal		31	<0.4	71	160	1.1	6.5	<0.1	<5	230
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28360	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28384	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526014	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		22	<1	59	98	<1.0	<5	<0.1	<5	163
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526038	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526015	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		14	<1	58	94	<1.0	<5	<0.1	<5	139
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526039	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28337	14/03/2022	Domain 1	871152	MGT	Normal		25	<0.4	73	130	<1	5.5	<0.1	<5	200
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28361	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28385	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28338	14/03/2022	Domain 1	871152	MGT	Normal		23	<0.4	73	120	<1	5.4	<0.1	<5	210
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28362	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28386	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526016	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		19	<1	63	102	<1.0	<5	<0.1	<5	155
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526040	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526017	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		20	<1	60	97	<1.0	<5	<0.1	<5	151
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526041	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28340	14/03/2022	Domain 1	871152	MGT	Normal		36	<0.4	59	130	<1	6.1	<0.1	<5	190
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28364	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28388	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28341	14/03/2022	Domain 1	871152	MGT	Normal		36	<0.4	69	120	<1	<5	<0.1	<5	170
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28365	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28389	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526019	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		23	<1	60	98	<1.0	<5	<0.1	<5	162

								Metals									
								Arsecic	Cadmium	Copper	Chromium (III+VI)	Chromium (hexavalent)	Lead	Mercury	Molybdenum	Nickel	
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	29	<0.4	67	120	<1	<5	<0.1	<5	230	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	20	<1	59	83	<1.0	<5	<0.1	<5	157	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	28	<0.4	76	120	<1	<5	<0.1	<5	180	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	21	<1	57	93	<1.0	<5	<0.1	<5	144	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	21	<1	57	96	<1.0	<5	<0.1	<5	150	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	31	<0.4	84	160	<1	5.6	<0.1	<5	200	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	23	<0.4	67	130	<1	<5	<0.1	<5	180	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	21	<1	71	92	<1.0	<5	<0.1	<5	176	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										

Statistics

Number of Results	38	38	38	38	38	38	38	38	38
Number of Detects	38	0	38	38	6	13	0	0	38
Minimum Concentration	14	<0.4	51	83	<1	<5	<0.1	<5	139
Minimum Detect	14	ND	51	83	1.1	5.2	ND	ND	139
Maximum Concentration	44	<1	87	170	1.2	7	<0.1	<5	240
Maximum Detect	44	ND	87	170	1.2	7	ND	ND	240
Average Concentration *	24	0.35	67	115	0.6	3.7	0.05	2.5	179
Median Concentration *	22.5	0.35	64.5	114.5	0.5	2.5	0.05	2.5	170
Standard Deviation *	6.1	0.15	9.6	21	0.23	1.7	0	0	28
95% UCL (Student's-t) *	26.12	0.392	69.37	120.8	0.66	4.143	0.05	2.5	187.1
% of Detects	100	0	100	100	16	34	0	0	100
% of Non-Detects	0	100	0	0	84	66	100	100	0

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+h)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	2	10	5	0.5	1	0.5	0.5	0.5
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 PIW Category B Leached Upper Limits									
EPA Victoria IWRG621 PIW Category B Upper Limits	200	720		140,000	400				
EPA Victoria IWRG621 PIW Category C Leached Upper Limits									
EPA Victoria IWRG621 PIW Category C Upper Limits	50	180	500	35,000	100				
EPA Victoria IWRG621 NPIW Upper Limits	10	10	50	200	20				

Location Code	Field ID	Sample Code	Date	Matrix Description	Lab Report Number	Lab Name	Sample Type	Parent Sample	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+h)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526006	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	103	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526030	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28328	12/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	130			<0.5	<0.5	<0.5
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28352	12/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28376	12/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526007	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	99	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526031	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28329	13/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	120			<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28353	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28377	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526008	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	102	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526032	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28330	13/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	160			<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28354	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28378	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526009	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	85	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526033	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28332	13/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	140			<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28356	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28380	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28333	13/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	160			<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28357	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28381	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526011	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	102	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526035	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28334	13/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	160			<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28358	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28382	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526013	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	97	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526037	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28336	13/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	160			<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28360	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28384	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526014	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	110	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526038	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526015	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	83	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526039	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28337	14/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	130			<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28361	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28385	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28338	14/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	170			<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28362	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28386	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526016	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	94	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526040	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526017	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	109	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526041	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28340	14/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	140			<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28364	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28388	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28341	14/03/2022	Domain 1	871152	MGT	Normal		<2	<2	<10	130			<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28365	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28389	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526019	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<5	<2	<10	108	<0.5	<1.0	<0.5	<0.5	<0.5

	Selenium	Silver	Tin	Zinc	PAHs (Vic EPA List)	Benzo(b+h)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene
B05.01									
B05.01	<2	<2	<10	190			<0.5	<0.5	<0.5
B05.01									
B05.01									
B05.01	<5	<2	<10	94	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01									
B05.01	<2	<2	<10	150			<0.5	<0.5	<0.5
B05.01									
B05.01									
B05.01	<5	<2	<10	97	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01									
B05.01	<5	<2	<10	105	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01									
B05.01	<2	<2	<10	150			<0.5	<0.5	<0.5
B05.01									
B05.01									
B05.01	<2	<2	<10	130			<0.5	<0.5	<0.5
B05.01									
B05.01									
B05.01	<5	<2	<10	110	<0.5	<1.0	<0.5	<0.5	<0.5
B05.01									

Statistics

Number of Results	38	38	38	38	19	19	38	38	38
Number of Detects	0	0	0	38	0	0	0	0	0
Minimum Concentration	<2	<2	<10	83	<0.5	<1	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	83	ND	ND	ND	ND	ND
Maximum Concentration	<5	<2	<10	190	<0.5	<1	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	190	ND	ND	ND	ND	ND
Average Concentration *	1.8	1	5	124	0.25	0.5	0.25	0.25	0.25
Median Concentration *	1.75	1	5	117	0.25	0.5	0.25	0.25	0.25
Standard Deviation *	0.76	0	0	27	0	0	0	0	0
95% UCL (Student's-t) *	1.958	1	5	130.9	0.25	0.5	0.25	0.25	0.25
% of Detects	0	0	0	100	0	0	0	0	0
% of Non-Detects	100	100	100	0	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

	PAH								
	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(e)pyrene	Benzo(b+g)fluoranthene	Benzo(k,h,i)perylene	Benzo(f)fluoranthene	Chrysene
	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
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 PIW Category B Leached Upper Limits									
EPA Victoria IWRG621 PIW Category B Upper Limits					20				
EPA Victoria IWRG621 PIW Category C Leached Upper Limits									
EPA Victoria IWRG621 PIW Category C Upper Limits					5				
EPA Victoria IWRG621 NPIW Upper Limits					1				

Location Code	Field ID	Sample Code	Date	Matrix Description	Lab Report Number	Lab Name	Sample Type	Parent Sample	Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(e)pyrene	Benzo(b+g)fluoranthene	Benzo(k,h,i)perylene	Benzo(f)fluoranthene	Chrysene
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526006	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526030	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28328	12/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28352	12/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28376	12/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526007	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526031	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28329	13/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28353	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28377	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526008	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526032	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28330	13/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28354	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28378	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526009	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526033	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28332	13/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28356	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28380	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28333	13/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28357	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28381	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526011	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526035	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28334	13/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28358	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28382	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526013	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526037	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28336	13/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28360	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28384	13/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526014	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526038	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526015	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526039	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28337	14/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28361	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28385	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28338	14/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28362	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28386	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526016	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526040	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526017	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526041	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28340	14/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28364	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28388	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28341	14/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28365	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28389	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526019	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5	<0.5	1.2	0.6	<0.5		<0.5		<0.5

								PAH								
								Benzo(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene	Benzo(b+g)fluoranthene	Benzo(k,h,i)perylene	Benzo(f)fluoranthene	Chrysene
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									

Statistics

Number of Results	38	38	38	38	38	19	38	19	38
Number of Detects	0	0	38	38	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	1.2	0.6	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	1.2	0.6	ND	ND	ND	ND	ND
Average Concentration *	0.25	0.25	1.2	0.6	0.25	0.25	0.25	0.25	0.25
Median Concentration *	0.25	0.25	1.2	0.6	0.25	0.25	0.25	0.25	0.25
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.25	0.25	1.2	0.6	0.25	0.25	0.25	0.25	0.25
% of Detects	0	0	100	100	0	0	0	0	0
% of Non-Detects	100	100	0	0	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene
									mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										

Statistics

Number of Results	38	38	38	38	38	38	38	19	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.075
Median Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.075
Standard Deviation *	0	0	0	0	0	0	0	0	0.025
95% UCL (Student's-t) *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.0819
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								BTEX					TRH				
								Ethylbenzene mg/kg	Toluene mg/kg	Xylene (o) mg/kg	Xylene (m & p) mg/kg	Xylene Total mg/kg	C6-C10 mg/kg	C6-C10 (F1 minus BTEX) mg/kg	C10-C16 mg/kg	C10-C16 (F2 minus Naphthalene) mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										

Statistics

Number of Results	38	38	38	38	38	38	38	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50	<50
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50	<50
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.15	0.15	0.15	0.18	0.2	10	10	25	25
Median Concentration *	0.15	0.15	0.15	0.175	0.2	10	10	25	25
Standard Deviation *	0.1	0.1	0.1	0.076	0.051	0	0	0	0
95% UCL (Student's-t) *	0.178	0.178	0.178	0.196	0.214	10	10	25	25
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								TPH											
								C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin			
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<100	<100	<100	<20	<20	<50	<50	<50	<0.05			
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<100	<100	<50	<20	<50	<100	<100	<50	<0.05			
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<100	<100	<100	<20	<20	<50	<50	<50	<0.05			
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<100	<100	<50	<20	<50	<100	<100	<50	<0.05			
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<100	<100	<50	<20	<50	<100	<100	<50	<0.05			
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<100	<100	<100	<20	<20	<50	<50	<50	<0.05			
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<100	<100	<100	<20	<20	<50	<50	<50	<0.05			
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<100	<100	<50	<20	<50	<100	<100	<50	<0.05			
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												

Statistics

Number of Results	38	38	38	38	38	38	38	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<100	<100	<50	<20	<20	<50	<50	<50	<0.05
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<100	<100	<100	<20	<50	<100	<100	<50	<0.05
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	50	50	38	10	18	38	38	25	0.025
Median Concentration *	50	50	37.5	10	17.5	37.5	37.5	25	0.025
Standard Deviation *	0	0	13	0	7.6	13	13	0	0
95% UCL (Student's-t) *	50	50	40.97	10	19.58	40.97	40.97	25	0.025
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin
									mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										

Statistics

Number of Results	38	38	38	38	38	38	38	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.05	<0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.025	0.087	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Median Concentration *	0.025	0.0875	0.025	0.025	0.025	0.025	0.025	0.025	0.025
Standard Deviation *	0	0.063	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.025	0.105	0.025	0.025	0.025	0.025	0.025	0.025	0.025
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

Organochlorine Pesticides																					
Endrin ketone	Endrin aldehyde	Endosulfan sulphate	Chlordane	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide													
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg												
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05				
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05					
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05				
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05					
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05					
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05				
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05				
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal														
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05					
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal														

Statistics

Number of Results	19	38	38	38	19	19	38	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.05	<0.05	<0.05	<0.1	<0.03	<0.03	<0.05	<0.05	<0.05
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.05	<0.05	<0.05	<0.1	<0.03	<0.03	<0.05	<0.05	<0.05
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.025	0.025	0.025	0.05	0.015	0.015	0.025	0.025	0.025
Median Concentration *	0.025	0.025	0.025	0.05	0.015	0.015	0.025	0.025	0.025
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.025	0.025	0.025	0.05	0.015	0.015	0.025	0.025	0.025
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								α-BHC	β-BHC	γ-BHC	γ-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPA Vic	Other organochlorine pesticides EPA Vic	2-Chlorophenol		
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5		
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.03	<0.50			
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5		
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.03	<0.50			
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.03	<0.50			
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5		
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5		
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.03	<0.50			
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											

Statistics									
Number of Results	38	38	38	38	38	19	38	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.03	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.025	0.025	0.025	0.025	0.025	0.25	0.05	0.032	0.25
Median Concentration *	0.025	0.025	0.025	0.025	0.025	0.25	0.05	0.0325	0.25
Standard Deviation *	0	0	0	0	0	0	0	0.018	0
95% UCL (Student's-t) *	0.025	0.025	0.025	0.025	0.025	0.25	0.05	0.0374	0.25
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

- Environmental Standards
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
 - EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
 - EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
 - EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<1	<1	<0.5	<1	<1		<5	<10
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<1	<1	<0.5	<1	<1		<5	<10
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<1	<1	<0.5	<1	<1		<5	<10
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<1	<1	<0.5	<1	<1		<5	<10
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05	<5	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									

Statistics

Number of Results	38	38	38	38	38	38	19	38	19
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<1	<1	<0.5	<1	<1	<0.05	<5	<10
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<1	<1	<0.5	<1	<1	<0.05	<5	<10
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.25	0.5	0.5	0.25	0.5	0.5	0.025	2.5	5
Median Concentration *	0.25	0.5	0.5	0.25	0.5	0.5	0.025	2.5	5
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.25	0.5	0.5	0.25	0.5	0.5	0.025	2.5	5
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	Phenols												
								2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPA Vic	Phenols (non-halogenated) EPA Vic	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				
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.03		<20	<1.00	<20	<1	<1	<1	<1	<5			
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.03		<20	<1.00	<20	<1	<1	<1	<1	<5			
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.03		<20	<1.00	<20	<1	<1	<1	<1	<5			
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal		<0.5	<20			<0.5	<0.2	<1	<5				
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal		<0.5	<20			<0.5	<0.2	<1	<5				
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal													
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.03		<20	<1.00	<20	<1	<1	<1	<5				
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal													

Statistics

Number of Results	19	19	38	19	19	38	38	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.03	<0.5	<20	<1	<20	<0.5	<0.2	<1	<5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.03	<0.5	<20	<1	<20	<1	<1	<1	<5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.015	0.25	10	0.5	10	0.38	0.3	0.5	2.5
Median Concentration *	0.015	0.25	10	0.5	10	0.375	0.3	0.5	2.5
Standard Deviation *	0	0	0	0	0	0.13	0.2	0	0
95% UCL (Student's-t) *	0.015	0.25	10	0.5	10	0.41	0.355	0.5	2.5
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

												10:2 Fluorotelomer sulfonic acid (10:2 FTS)		8:2 Fluorotelomer sulfonic	
												mg/L	mg/kg		mg/L
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal								
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.00005
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.00005	<0.00005
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.00005	<0.00005
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.00005
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.00005	<0.00005
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.00005	<0.00005
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.00005	<0.00005
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.00005	<0.00005
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.00005
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.4	<5	<20	<0.5	<1	<20	<0.00005	<0.00005
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal							<0.00001	<0.00001
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<1	<5	<20	<1			<0.00005	<0.00005
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.00005	<0.00005

Statistics

Number of Results	38	38	38	38	19	19	76	38	76
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.4	<5	<20	<0.5	<1	<20	<0.00001	<0.005	<0.00001
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<1	<5	<20	<1	<1	<20	<0.00005	<0.005	<0.00005
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.35	2.5	10	0.38	0.5	10	0.000015	0.0025	0.000015
Median Concentration *	0.35	2.5	10	0.375	0.5	10	0.000015	0.0025	0.000015
Standard Deviation *	0.15	0	0	0.13	0	0	0.00001	0	0.00001
95% UCL (Student's-t) *	0.392	2.5	10	0.41	0.5	10	0.000016923	0.0025	0.000016923
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	8:2 FTs		6:2 Fluorotelomer sulfonic acid (6:2 FTs)		4:2 Fluorotelomer sulfonic acid (4:2 FTs)		N-Ethyl perfluorooctane sulfonamide (NEFOSA)		N-ethyl-perfluorooctanesulfonamid oacetic acid (NEFOSAA)	
								mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L		
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00001	<0.00005	<0.00005	<0.00005	<0.00005		
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005		

Statistics

Number of Results	38	76	38	76	38	76	38	76	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.005	<0.00005	<0.01	<0.00001	<0.005	<0.00005	<0.005	<0.00005	<0.01
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.0025	0.000025	0.005	0.000015	0.0025	0.000025	0.0025	0.000025	0.005
Median Concentration *	0.0025	0.000025	0.005	0.000015	0.0025	0.000025	0.0025	0.000025	0.005
Standard Deviation *	0	0	0	0.00001	0	0	0	0	0
95% UCL (Student's-t) *	0.0025	0.000025	0.005	0.000016923	0.0025	0.000025	0.0025	0.000025	0.005
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									N-ethylperfluorooctanesulfonamidoethanol (NETFOSE)		N-Methyl perfluorooctane sulfonamide (NMeFOSA)		N-methylperfluorooctane sulfonamidoacetic acid (NMeFOAAA)		N-Methylperfluorooctanesulfonamidoethanol (NMeFOSE)		Perfluorobutanoic acid
									mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal			<0.005		<0.005		<0.01		<0.005	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal			<0.005		<0.005		<0.01		<0.005	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal			<0.005		<0.005		<0.01		<0.005	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal			<0.005		<0.005		<0.01		<0.005	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.0001
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.00005		<0.00005		<0.0001

Statistics

Number of Results	76	38	76	38	76	38	76	38	76
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.00005
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.00005	<0.005	<0.00005	<0.005	<0.00005	<0.01	<0.00005	<0.005	<0.0001
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.000025	0.0025	0.000025	0.0025	0.000025	0.005	0.000025	0.0025	0.000038
Median Concentration *	0.000025	0.0025	0.000025	0.0025	0.000025	0.005	0.000025	0.0025	0.0000375
Standard Deviation *	0	0	0	0	0	0	0	0	0.000013
95% UCL (Student's-t) *	0.000025	0.0025	0.000025	0.0025	0.000025	0.005	0.000025	0.0025	0.00003904
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

Sample ID	Sample Description	Reference	Date	Domain	EM2204526	Location	Status	PFBA	Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)		Perfluorododecanoic acid (PFDoDA)		Perfluorodecanesulfonic acid (PFDS)	
									mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.005		<0.005		<0.005		<0.005		<0.005
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.005		<0.005		<0.005		<0.005		<0.005
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.005		<0.005		<0.005		<0.005		<0.005
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.005	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002	

Statistics

Statistic	38	76	38	76	38	76	38	76	38
Number of Results	38	76	38	76	38	76	38	76	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025
Median Concentration *	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025
Standard Deviation *	0	0.0000025	0	0.0000025	0	0.0000025	0	0.0000025	0
95% UCL (Student's-t) *	0.0025	0.0000079808	0.0025	0.0000079808	0.0025	0.0000079808	0.0025	0.0000079808	0.0025
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

PFOS/PFOA														
Perfluoroheptanoic acid (PFHpA)		Perfluoroheptanoic acid (PFHpS)		Perfluorohexanoic acid (PFHxA)		Perfluorononanoic acid (PFNA)		Perfluoronanesulfonic acid						
mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg					
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002

Statistics

	76	38	76	38	76	38	76	38	38
Number of Results	76	38	76	38	76	38	76	38	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00001
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.000005
Median Concentration *	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.000005
Standard Deviation *	0.0000025	0	0.0000025	0	0.0000025	0	0.0000025	0	0
95% UCL (Student's-t) *	0.0000079808	0.0025	0.0000079808	0.0025	0.0000079808	0.0025	0.0000079808	0.0025	0.000005
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									acid (PFNS)(trace)	Perfluorooctanoic acid (PFOA)		Perfluorooctane sulfonamide (PFOSA)		Perfluoropentanoic acid (PFPeA)		Perfluoropentane sulfonic acid (PFPeS)		
									mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/kg
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00001	<0.005	<0.00005	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.005		<0.005		<0.005		<0.005		<0.005	<0.005	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	

Statistics									
Number of Results	19	76	38	76	38	76	38	76	38
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.005	<0.00001	<0.005	<0.00005	<0.005	<0.00001	<0.005	<0.00001	<0.005
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.005	<0.00001	<0.005	<0.00005	<0.005	<0.00002	<0.005	<0.00002	<0.005
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.0025	0.000005	0.0025	0.000025	0.0025	0.0000075	0.0025	0.0000075	0.0025
Median Concentration *	0.0025	0.000005	0.0025	0.000025	0.0025	0.0000075	0.0025	0.0000075	0.0025
Standard Deviation *	0	0	0	0	0	0.0000025	0	0.0000025	0
95% UCL (Student's-t) *	0.0025	0.000005	0.0025	0.000025	0.0025	0.0000079808	0.0025	0.0000079808	0.0025
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									Perfluoropropanesulfonic acid (PFPS)		Perfluorotetradecanoic acid (PFTEA)		Perfluorotridecanoic acid (PFTDA)		Perfluoroundecanoic acid (PFUDA)		Perfluorooctanesulfonic	
									mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal											<0.00001
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											<0.00001

Statistics

	38	19	76	38	76	38	76	38	76
Number of Results	38	19	76	38	76	38	76	38	76
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.00001	<0.005	<0.00005	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00001
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.000005	0.0025	0.000015	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.000005
Median Concentration *	0.000005	0.0025	0.000015	0.0025	0.0000075	0.0025	0.0000075	0.0025	0.000005
Standard Deviation *	0	0	0.00001	0	0.0000025	0	0.0000025	0	0
95% UCL (Student's-t) *	0.000005	0.0025	0.000016923	0.0025	0.0000079808	0.0025	0.0000079808	0.0025	0.000005
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

	SX	OB	Date	Domain	EM	MGT	Result	acid (PFOS)		Perfluorohexane sulfonic acid (PFHxS)		Sum of PFHxS and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	
								mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L		
B05.01	SX	OB	20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal								
B05.01	SX	OB	20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX	OB	20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050			
B05.01	SX	OB	20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00001				
B05.01	SX	OB	20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX	OB	20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050			
B05.01	SX	OB	20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00001				
B05.01	SX	OB	20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050			
B05.01	SX	OB	20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00001				
B05.01	SX	OB	20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX	OB	20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001
B05.01	SX	OB	20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal		<0.00001		<0.00001		<0.00001		<0.00001
B05.01	SX	OB	20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050			
B05.01	SX	OB	20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.00001		<0.00001				

Statistics

Number of Results	38	76	38	76	38	38	19	38	19
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005	<0.00001	<0.005
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.0025	0.000005	0.0025	0.000005	0.0025	0.000005	0.0025	0.000005	0.0025
Median Concentration *	0.0025	0.000005	0.0025	0.000005	0.0025	0.000005	0.0025	0.000005	0.0025
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.0025	0.000005	0.0025	0.000005	0.0025	0.000005	0.0025	0.000005	0.0025
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									Sum of PFAS mg/L	Sum of PFAS mg/kg	1,1-dichloroethane mg/kg	1,1-dichloroethene mg/kg	1,2,3-trichloropropane mg/kg	1,2-dichloroethane mg/kg	1,2-dichloropropane mg/kg	1,3-dichloropropane mg/kg	Bromochloromethane mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.00010	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.00010	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.00010	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.00010	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal	<0.00010										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010	<0.0500	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.00010										

Statistics

Number of Results	76	38	19	38	19	38	19	19	19
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.0001	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.0001	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.00005	0.025	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration *	0.00005	0.025	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.00005	0.025	0.25	0.25	0.25	0.25	0.25	0.25	0.25
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									Chlorinated Hydrocarbons									
									1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2,2-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	Dibromomethane	Dichloromethane	
									mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50		<0.50	<0.50	<0.50					<0.5
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50		<0.50	<0.50	<0.50					<0.5
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50		<0.50	<0.50	<0.50					<0.5
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal											
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50		<0.50	<0.50	<0.50					<0.5
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal											

Statistics										
Number of Results		38	19	38	38	38	19	19	19	38
Number of Detects		0	0	0	0	0	0	0	0	0
Minimum Concentration		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect		ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect		ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration *		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation *		0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
% of Detects		0	0	0	0	0	0	0	0	0
% of Non-Detects		100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

- Environmental Standards**
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
 - EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
 - EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
 - EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
 - EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

	Hexachlorobutadiene	Other chlorinated hydrocarbons EPAVic	Trichloroethene	Chlorinated hydrocarbons EPA Vic	cis-1,2-dichloroethene	1,1,1-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
B05.01									
B05.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01									
B05.01									
B05.01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
B05.01									
B05.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01									
B05.01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
B05.01									
B05.01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
B05.01									
B05.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01									
B05.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01									
B05.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01									
B05.01	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01									
B05.01	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		<0.50	
B05.01									

Statistics

Number of Results	38	38	38	38	38	38	19	38	19
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	NA								
								Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*		Moisture Content	Arochlor 1222
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.05		<0.1
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50			<0.50	<0.50	<10.0	<0.05	32.6	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.05		
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50			<0.50	<0.50	<10.0	<0.05	30.9	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.05		
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50			<0.50	<0.50	<10.0	<0.05	32.5	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.05		
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<10			<0.1
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal						<0.05			
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	<0.50			<0.50	<0.50	<10.0	<0.05	34.0	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal							<0.05		

Statistics

Number of Results	38	19	19	38	38	76	38	19	19
Number of Detects	0	0	0	0	0	0	0	19	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	30.9	<0.1
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	30.9	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<0.05	38.1	<0.1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	38.1	ND
Average Concentration *	0.25	0.25	0.25	0.25	0.25	2.5	0.025	34	0.05
Median Concentration *	0.25	0.25	0.25	0.25	0.25	2.5125	0.025	33.5	0.05
Standard Deviation *	0	0	0	0	0	2.5	0	2.2	0
95% UCL (Student's-t) *	0.25	0.25	0.25	0.25	0.25	2.991	0.025	34.86	0.05
% of Detects	0	0	0	0	0	0	0	100	0
% of Non-Detects	100	100	100	100	100	100	100	0	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								PCBs											
								Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (Final)	pH of Leaching Fluid			
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-	-			
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal								<0.1				
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal								<0.1				
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal								<0.1				
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal								<0.1				
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												

Statistics									
Number of Results	19	19	19	19	19	19	38	76	57
Number of Detects	0	0	0	0	0	0	0	76	57
Minimum Concentration	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5	5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	5	5
Maximum Concentration	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	9.5	5.1
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	9.5	5.1
Average Concentration *	0.05	0.05	0.05	0.05	0.05	0.05	0.05	7.1	5.1
Median Concentration *	0.05	0.05	0.05	0.05	0.05	0.05	0.05	7	5.1
Standard Deviation *	0	0	0	0	0	0	0	2	0.048
95% UCL (Student's-t) *	0.05	0.05	0.05	0.05	0.05	0.05	0.05	7.469	5.077
% of Detects	0	0	0	0	0	0	0	100	100
% of Non-Detects	100	100	100	100	100	100	100	0	0

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								Inorganics				Halogenated Benzenes					
								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	
									mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	8.4	<100	33	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		140		<5	<0.50	<0.50		<0.50		
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	8.5	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		110		<5	<0.50	<0.50		<0.50		
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		140		<5	<0.50	<0.50		<0.50		
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	8.5	<100	31	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	8.8	160	37	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		160		<5	<0.50	<0.50		<0.50		
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal										

Statistics										
Number of Results	19	38	19	38	38	38	19	38	19	
Number of Detects	19	17	19	0	0	0	0	0	0	
Minimum Concentration	8.4	<100	28	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	8.4	110	28	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	9.1	170	37	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	9.1	170	37	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	8.6	89	33	2.5	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration *	8.5	50	33	2.5	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation *	0.19	46	2.2	0	0	0	0	0	0	0
95% UCL (Student's-t) *	8.682	101.8	33.99	2.5	0.25	0.25	0.25	0.25	0.25	0.25
% of Detects	100	45	100	0	0	0	0	0	0	0
% of Non-Detects	0	55	0	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
 EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
 EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								Halogenated Hydrocarbons								
								4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane	Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50							<0.5
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50							<0.5
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50							<0.5
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal									
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.50							<0.5
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal									

Statistics

Number of Results	19	38	19	19	19	19	19	19	19
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

								MAH				Solvents							
								1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	Methyl Ethyl Ketone			
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5										
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5										
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5										
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal												
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		<0.5										
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal												

Statistics

Number of Results	19	38	19	19	19	19	19	19	19
Number of Detects	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Median Concentration *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation *	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
% of Detects	0	0	0	0	0	0	0	0	0
% of Non-Detects	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

									SPOCAS
									pH (CaCl2)
EQL									0.1
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 PIW Category B Leached Upper Limits									
EPA Victoria IWRG621 PIW Category B Upper Limits									
EPA Victoria IWRG621 PIW Category C Leached Upper Limits									
EPA Victoria IWRG621 PIW Category C Upper Limits									
EPA Victoria IWRG621 NPIW Upper Limits									

Location Code	Field ID	Sample Code	Date	Matrix Description	Lab Report Number	Lab Name	Sample Type	Parent Sample	
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526006	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.7
B05.01	SX_OB_20220312_20_00_SS_Prii	EM2204526030	12/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28328	12/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28352	12/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220312_20_04_SS_Prii	M22-Ma28376	12/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526007	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.8
B05.01	SX_OB_20220313_00_00_SS_Prii	EM2204526031	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28329	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28353	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_00_03_SS_Prii	M22-Ma28377	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526008	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.6
B05.01	SX_OB_20220313_04_00_SS_Prii	EM2204526032	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28330	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28354	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_04_06_SS_Prii	M22-Ma28378	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526009	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.6
B05.01	SX_OB_20220313_08_48_SS_Prii	EM2204526033	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28332	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28356	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_09_00_SS_Prii	M22-Ma28380	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28333	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28357	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_11_47_SS_Prii	M22-Ma28381	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526011	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.7
B05.01	SX_OB_20220313_11_53_SS_Prii	EM2204526035	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28334	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28358	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_15_44_SS_Prii	M22-Ma28382	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526013	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.6
B05.01	SX_OB_20220313_15_52_SS_Prii	EM2204526037	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28336	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28360	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_20_01_SS_Prii	M22-Ma28384	13/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526014	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.6
B05.01	SX_OB_20220313_20_04_SS_Prii	EM2204526038	13/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526015	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.7
B05.01	SX_OB_20220314_00_06_SS_Prii	EM2204526039	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28337	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28361	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_00_11_SS_Prii	M22-Ma28385	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28338	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28362	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_03_57_SS_Prii	M22-Ma28386	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526016	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		8.4
B05.01	SX_OB_20220314_04_02_SS_Prii	EM2204526040	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526017	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		8.3
B05.01	SX_OB_20220314_07_59_SS_Prii	EM2204526041	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28340	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28364	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_08_13_SS_Prii	M22-Ma28388	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28341	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28365	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_11_54_SS_Prii	M22-Ma28389	14/03/2022	Domain 1	871152	MGT	Normal		
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526019	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal		7.7

								SPOCAS
								pH (CaCl2)
B05.01	SX_OB_20220314_11_59_SS_Prii	EM2204526043	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28342	14/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28366	14/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220314_15_42_SS_Prii	M22-Ma28390	14/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526021	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	7.7
B05.01	SX_OB_20220314_15_50_SS_Prii	EM2204526045	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28344	14/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28368	14/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220314_20_00_SS_Prii	M22-Ma28392	14/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526022	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	7.9
B05.01	SX_OB_20220314_20_04_SS_Prii	EM2204526046	14/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526023	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	7.7
B05.01	SX_OB_20220315_00_00_SS_Prii	EM2204526047	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28345	15/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28369	15/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220315_00_04_SS_Prii	M22-Ma28393	15/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28346	15/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28370	15/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220315_03_53_SS_Prii	M22-Ma28394	15/03/2022	Domain 1	871152	MGT	Normal	
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526024	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	8.0
B05.01	SX_OB_20220315_03_57_SS_Prii	EM2204526048	15/03/2022	Domain 1	EM2204526	ALSE-Melbourne	Normal	

Statistics

Number of Results	19
Number of Detects	19
Minimum Concentration	7.6
Minimum Detect	7.6
Maximum Concentration	8.4
Maximum Detect	8.4
Average Concentration *	7.8
Median Concentration *	7.7
Standard Deviation *	0.24
95% UCL (Student's-t) *	7.891
% of Detects	100
% of Non-Detects	0

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/404 (SO 9038429) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/405 (SO 9038560) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - 2019/406 (SO 9038561) Threshold
- EPA Victoria, 13 Sep 2019, EPA PFAS Classification - Tunnel Zone - No option for disposal threshold
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category B Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Leached Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Category C Upper Limits
- EPA Victoria, July 2009, EPA Victoria IWRG621 Fill Upper Limits

						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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		29	<0.4	67	120	<1	<5	<0.1	<5	230	<2
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	32	<0.4	86	120	<1	5.2	<0.1	<5	200	<2
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		10	0	25	0	0	4	0	0	14	0
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	19	<1	51	84	<1.0	<5	<0.1	<5	150	<5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		42	0	27	35	0	0	0	42	0	0
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	29	<0.4	67	120	<1	<5	<0.1	<5	230	<2
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		20	<1	60	97	<1.0	<5	<0.1	<5	151	<5
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	20	<1	66	104	<1.0	<5	<0.1	<5	161	<5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		0	0	10	7	0	0	0	0	6	0
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	24	<0.4	64	120	1.1	5.2	<0.1	<5	170	<2
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		18	0	6	21	10	4	0	0	12	0
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
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+h)fluoranthene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene TEO calc (Zero)	Benzo(a)pyrene TEO (LOR)	Benzo(a)pyrene TEO calc (Half)				
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033													
RPD																				
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal				<10	190		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28342			<10	130		<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	
RPD																				
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal				0	38		0	0	0	0	0	0	0	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342			<10	105	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD																				
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal				0	58		0	0	0	0	0	0	0	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342			<10	190		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD																				
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal				<10	109	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526017			<10	107	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD																				
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal				0	2	0	0	0	0	0	0	0	0	
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526017			<10	150		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6
RPD																				
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal				0	32		0	0	0	0	0	0	0	
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526041													
RPD																				
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041													
RPD																				
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal														
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041													
RPD																				

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

						PAH										
						Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a,h,i)perylene	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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033											
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<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
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<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
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<20	<20	<50
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342											
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<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
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.5		<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<20	<20	<50
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<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
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041											
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041											
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041											
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	Diadrin
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<50	<100	<100	<50	<20	<50	<100	<100	<50	<0.05
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																

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

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

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

							Orga											
							Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033												
RPD																		
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																		
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																		
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.30	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041												
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041												
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041												
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											
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<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

						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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal											
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.1		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
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

								0.5	0.1	0.03	0.5	0.5	1	1	0.5	1	1	0.05	
								Toxaphene	Organochlorine pesticides EPA/Vic	Other organochlorine pesticides EPA/Vic	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												
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326												
RPD																			
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326												
RPD																			
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326		<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	0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326												
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<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	0	
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001												
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	0	
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025												
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<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	0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<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	0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009												
RPD																			
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<1	
RPD								0	0	0	0	0	0	0	0	0	0	0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0	<0.05		
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033												
RPD																			

						Toxaphene	Organochlorine pesticides EPA Vic	Other organochlorine pesticides EPA Vic	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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017		<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.10	<0.03	<0.50	<0.50	<1.00	<1.00	<0.50	<1.00	<1.0
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			0	0	0	0	0	0	0	0	0
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
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 mg/kg	Tetrachlorophenols mg/kg	2,3,5,6-Tetrachlorophenol mg/kg	Cresol Total mg/kg	4,6-Dinitro-o-cyclohexylphenol mg/kg	Phenols (halogenated) EPA Vic mg/kg	Phenols (non-halogenated) EPA Vic mg/kg	2,4-Dimethylphenol mg/kg	2-Methylphenol mg/kg	2-Nitrophenol mg/kg	2,4-Dinitrophenol 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												
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD								0	0		0	0			0	0	0	0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD																			
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD																			
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
RPD								0			0			0	0	0	0	0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<5											
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
RPD								0		0	0	0	0	0	0	0	0	0	
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD								0			0			0	0	0	0	0	
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<5											
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025												
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<5											
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD								0	0		0	0			0	0	0	0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334												
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
RPD								0			0			0	0	0	0	0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD																			
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
RPD								0		0	0	0	0	0	0	0	0	0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
RPD																			
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<1	<5	
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<5	<10		<0.5	<20			<0.5	<0.2	<1	<5	
RPD								0			0			0	0	0	0	0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<5											
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526033												
RPD																			

						Phenols										
						4,6-Dinitro-2-methylphenol	Tetrachlorophenols	2,3,5,6-Tetrachlorophenol	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	Phenols (halogenated) EPA Vic	Phenols (non-halogenated) EPA Vic	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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<5	<10	<0.5	<20			<0.5	<0.2	<1	<5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<5	<10	<0.5	<20			<0.5	<0.2	<1	<5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<5	<10	<0.5	<20			<0.5	<0.2	<1	<5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<5	<10	<0.5	<20			<0.5	<0.2	<1	<5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<5
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<5		<0.03	<20	<1.00	<20	<1	<1	<1	<5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<5		<0.03	<20	<1.00	<20	<1	<1	<1	<5
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<5	<10	<0.5	<20			<0.5	<0.2	<1	<5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
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

								2,4-Dimethylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotolomer sulfonic acid (10:2 FTS)	8:2 Fluorotolomer sulfonic acid (8:2 FTS)	6:2 Fluorotolomer 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
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample											
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B04.01	SX_OB_20220312_16_01_SS_Du	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
RPD								0	0	0	0	0	0	0		0		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B04.01	SX_OB_20220312_16_01_SS_Du	12/03/2022		871152	MGT	Field_D	M22-Ma28326							<0.00001		<0.00001	<0.00005	
RPD																		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B04.01	SX_OB_20220312_16_01_SS_Du	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.4	<5	<20	<0.5	<1	<20	<0.00001		<0.00001	<0.00005	
RPD																		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0			0		0		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326							<0.00005		<0.00005	<0.00005	
RPD																		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B04.01	SX_OB_20220312_08_12_SS_Du	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0			0		0		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B04.01	SX_OB_20220312_08_12_SS_Du	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001							<0.00005		<0.00005	<0.00005	
RPD																		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<0.4	<5	<20	<0.5	<1	<20	<0.00005		<0.00005	<0.0050	
RPD								0	0	0	0			0		0		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00005						<0.00005		<0.00005	<0.00005	
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.00001						<0.00001		<0.00001	<0.00005	
RPD								0						0		0		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00005						<0.00005		<0.00005	<0.00005	
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.00001						<0.00001		<0.00001	<0.00005	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B05.01	SX_OB_20220314_15_43_SS_Du	14/03/2022		871152	MGT	Field_D	M22-Ma28334							<0.00001		<0.00001	<0.00005	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B05.01	SX_OB_20220314_15_43_SS_Du	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.4	<5	<20	<0.5	<1	<20	<0.00001		<0.00001	<0.00005	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B05.01	SX_OB_20220313_15_48_SS_Du	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
RPD								0	0	0	0	0	0	0		0		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B05.01	SX_OB_20220313_15_48_SS_Du	13/03/2022		871152	MGT	Field_D	M22-Ma28334							<0.00001		<0.00001	<0.00005	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B05.01	SX_OB_20220313_15_48_SS_Du	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.4	<5	<20	<0.5	<1	<20	<0.00001		<0.00001	<0.00005	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.005		<0.005		
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0			0		0		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20	<0.00005		<0.00005	<0.0050	
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334							<0.00005		<0.00005	<0.00005	
RPD																		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B05.01	SX_OB_20220313_08_53_SS_Du	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD								0	0	0	0			0		0		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B05.01	SX_OB_20220313_08_53_SS_Du	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009							<0.00005		<0.00005	<0.00005	
RPD																		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1			<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<0.4	<5	<20	<0.5	<1	<20	<0.00005		<0.00005	<0.0050	
RPD								0	0	0	0			0		0		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00005						<0.00005		<0.00005	<0.00005	
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526033	<0.00001						<0.00001		<0.00001	<0.00005	
RPD																		

						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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033						<0.00001		<0.00001		<0.00005
RPD												0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD							0	0	0	0	0	0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD							0	0	0	0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342						<0.00005		<0.00005		<0.00005
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
RPD							0	0	0	0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<1	<5	<20	<1		<0.00005	<0.0050	<0.00005	<0.0050	<0.00005
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.4	<5	<20	<0.5	<1	<20		<0.005		<0.005
RPD							0	0	0	0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041						<0.00005		<0.00005		<0.00005
RPD												0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041						<0.00001		<0.00001		<0.00005
RPD												0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041						<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 (NEFOSA)		N-ethyl-perfluorooctanesulfonamid oacetic acid (NEFOSAA)		N-ethylperfluorooctanesulfon amidoethanol (NEFOSAE)		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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD																			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	<0.005
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28342	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	<0.005
RPD																			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	<0.005
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.0050
RPD																			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	<0.005
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	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	<0.0050
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.00005	<0.0100	<0.00005	<0.0050	<0.00005	<0.0050	<0.0050
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	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	<0.0050
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526017	<0.01		<0.005		<0.005		<0.01		<0.005		<0.005	<0.005
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526041		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041		<0.00001		<0.00005		<0.00005		<0.00005		<0.00005		<0.00005
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

								N-methylperfluorooctane sulfonamideacetic acid (NMeFOSAA)		N-methylperfluorooctanesulfonamideethanol (NMeFOSE)		Perfluorobutanoic acid (PFBA)		Perfluorobutane sulfonic acid (PFBS)		Perfluorodecanoic acid (PFDA)		Perfluorodecanoic acid	
								mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample												
EQL								0.00005	0.01	0.00005	0.005	0.00005	0.005	0.00001	0.005	0.00001	0.005	0.00001	0.005
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.01		<0.005		<0.005		<0.005		<0.005		<0.005	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.01		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD								0		0		0		0		0		0	

B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal	N-methylperfluorooctane sulfonamidooctanoic 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	mg/kg
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD							0		0		0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342		<0.01		<0.005		<0.005		<0.005		<0.005	
RPD								0		0		0		0		0	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<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	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal			<0.01		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.00005	<0.01	<0.00005	<0.005	<0.0001	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00002
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	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
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<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
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	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
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017		<0.01		<0.005		<0.005		<0.005		<0.005	
RPD								0		0		0		0		0	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041	<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
RPD							0		0		0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041	<0.00005		<0.00005		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0		0	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00005		<0.00005		<0.0001		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041	<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)	Perfluorheptanoic acid (PFHpA)	Perfluorheptane sulfonic acid (PFHPS)	Perfluorhexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	
							mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033	<0.00001		<0.00001		<0.00001		<0.00001
RPD							0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.005		<0.005		<0.005		<0.005
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.005		<0.005		<0.005		<0.005
RPD							0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.005		<0.005		<0.005		<0.005
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD							0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.005		<0.005		<0.005		<0.005
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.00002		<0.00002		<0.00002		<0.00002
RPD													
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD							0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.005		<0.005		<0.005		<0.005
RPD							0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041	<0.00002		<0.00002		<0.00002		<0.00002
RPD							0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041	<0.00001		<0.00001		<0.00001		<0.00001
RPD							0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.00002		<0.00002		<0.00002		<0.00002
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041	<0.00001		<0.00001		<0.00001		<0.00001
RPD							0		0		0		0

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

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

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

EQL								Perfluorononanesulfonic acid (PFNS)(trace)	Perfluorooctanoic acid (PF OA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentanoic acid (PFPeA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluoropropanesulfonic acid		
								mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg
								0.00001	0.005	0.00001	0.005	0.00005	0.005	0.00001	0.005

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample	Perfluorononanesulfonic acid (PFNS)(trace)	Perfluorooctanoic acid (PF OA)	Perfluorooctane sulfonamide (PFOSA)	Perfluoropentanoic acid (PFPeA)	Perfluoropentane sulfonic acid (PFPeS)	Perfluoropropanesulfonic acid
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD								0	0	0	0	0	0
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD													
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD													
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.00001	<0.00050	<0.00005	<0.00050	<0.00002	<0.00050
RPD								0	0	0	0	0	0
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.00001	<0.00005	<0.00005	<0.00002	<0.00002	<0.00002
RPD													
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
RPD								0	0	0	0	0	0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.00001	<0.00005	<0.00005	<0.00002	<0.00002	<0.00002
RPD								0	0	0	0	0	0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD								0	0	0	0	0	0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.00001	<0.00005	<0.00002	<0.00002	<0.00002
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD								0	0	0	0	0	0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.00005	<0.00005	<0.00002	<0.00002	<0.00002
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD								0	0	0	0	0	0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD													
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD													
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD								0	0	0	0	0	0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD													
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
RPD								0	0	0	0	0	0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.00001	<0.00001	<0.00005	<0.00002	<0.00002	<0.00002
RPD													
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
RPD								0	0	0	0	0	0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
RPD								0	0	0	0	0	0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
RPD								0	0	0	0	0	0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.00005	<0.00005	<0.00002	<0.00002	<0.00002
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526033	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00001
RPD								0	0	0	0	0	0

B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal		Perfluorononanesulfonic acid (PFNS)(trace)		Perfluorooctanoic acid (PFDA)		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	
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD								0		0		0		0			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD								0		0		0		0		0	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD									0		0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal			<0.005		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD									0		0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017		<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
RPD								0		0		0		0		0	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.00001	<0.0050	<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD									0		0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041		<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
RPD								0		0		0		0		0	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041	<0.00001		<0.00001		<0.00005		<0.00001		<0.00001		<0.00001
RPD									0		0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.00001		<0.00005		<0.00002		<0.00002		<0.00002	
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041	<0.00001		<0.00001		<0.00005		<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

							acid (PFPS)		Perfluorotetradecanoic acid (PFTeDA)		Perfluorotridecanoic acid (PFTrDA)		Perfluoroundecanoic acid (PFUnDA)		Perfluorooctanesulfonic acid (PFOS)		Perfluorohexane sulfonic acid (PFHS)		
							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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526033		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		
RPD																			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28342	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD																			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_44_SS_Trii	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	
RPD																			
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
B05.01	SX_OB_20220314_15_44_SS_Trii	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.00005	<0.005	<0.00002	<0.005	<0.00002	<0.005	<0.00001	<0.005	<0.00001	<0.005	
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526017		<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005	<0.0050	<0.00002	<0.0050	<0.00002	<0.0050	<0.00001	<0.0050	<0.00001	<0.0050	
B05.01	SX_OB_20220314_08_01_SS_Trii	14/03/2022		871152	MGT	Interlab_D	EM2204526017	<0.005		<0.005		<0.005		<0.005		<0.005		<0.005	
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526041		<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
B05.01	SX_OB_20220314_08_01_SS_Trii	14/03/2022		871152	MGT	Interlab_D	EM2204526041		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
B05.01	SX_OB_20220314_08_01_SS_Trii	14/03/2022		871152	MGT	Interlab_D	EM2204526041		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
B05.01	SX_OB_20220314_08_01_SS_Trii	14/03/2022		871152	MGT	Interlab_D	EM2204526041		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		
RPD																			
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal			<0.00005		<0.00002		<0.00002		<0.00001		<0.00001		
B05.01	SX_OB_20220314_08_01_SS_Trii	14/03/2022		871152	MGT	Interlab_D	EM2204526041		<0.00001		<0.00001		<0.00001		<0.00001		<0.00001		
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	Sum of PFHs and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHs + PFOS + PFOA)*		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			
EQL								0.00001	0.005	0.00001	0.005	0.00001	0.005	0.0001	0.05	0.5	0.5	0.5
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
RPD								0		0		0		0		0	0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.00001		<0.00001		<0.00001		<0.0001				
RPD																		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.00001		<0.00001		<0.00001		<0.0001				
RPD																		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
RPD								0		0		0		0		0	0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.00001				<0.00010						
RPD																		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
RPD								0	0			0	0		0	0	0	
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.00001				<0.00010						
RPD								0				0						
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526001		<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
RPD									0				0		0	0	0	
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001				<0.00010						
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0				0						
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001				<0.00010						
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0				0						
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.00001		<0.00001		<0.00001		<0.0001				
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.00001		<0.00001		<0.00001		<0.0001				
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
RPD								0		0		0		0		0	0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.00001		<0.00001		<0.00001		<0.0001				
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
RPD								0		0		0		0		0	0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.005		<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.00001				<0.00010						
RPD																		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
RPD								0	0			0	0		0	0	0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.00001				<0.00010						
RPD								0				0						
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526009		<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
RPD								0				0		0		0	0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001				<0.00010						
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526033	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0				0						

							Sum of PFHs and PFOS		Sum of US EPA PFAS (PFOS + PFOA)*		Sum of enHealth PFAS (PFHs + PFOS + PFOA)*		Sum of PFAS		1,1-dichloroethane	1,1-dichloroethene	1,2,3-trichloropropane	
							mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/kg				mg/L
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033	<0.00001		<0.00001		<0.00001		<0.0001				
RPD								0				0						
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal			<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28342		<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
RPD								0		0		0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal			<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
RPD								0				0		0		0		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal			<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.00001				<0.00010						
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
RPD								0	0			0	0		0		0	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001	<0.0050			<0.00010	<0.0500		<0.50			
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526017		<0.005	<0.005		<0.005		<0.05	<0.5	<0.5	<0.5	<0.5
RPD								0				0		0		0		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001				<0.00010						
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526041	<0.00001				<0.00010						
RPD								0				0						
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001				<0.00010						
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041	<0.00001	<0.00001	<0.00001		<0.0001						
RPD								0				0						
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.00001				<0.00010						
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041	<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-tetrachloroethane	Chloromethane	cis-1,3-dichloropropene	
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
EQL								0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample												
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD								0	0	0	0	0	0	0	0	0	0	0	0

						1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	1,1,1,2-tetrachloroethane	Bromodichloromethane	1,1,1-trichloroethane	Chloroform	1,1,2-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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.50			<0.50		<0.50	<0.50	<0.50		
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50		
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.50			<0.50		<0.50	<0.50	<0.50		
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.50			<0.50		<0.50	<0.50	<0.50		
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																

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

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

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

EQL	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
	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				
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5
RPD								0	0	0	0
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5
RPD											
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5
RPD											
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.5	<0.5	<0.50	<0.50
RPD								0	0	0	0
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_02_SS_Trii	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5
RPD											
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.5	<0.50	<0.50	<0.50
RPD								0	0	0	0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.5	<0.50	<0.50	<0.50
RPD											
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<0.5	<0.5	<0.5	<0.5
RPD								0	0	0	0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.5	<0.5	<0.5	<0.5
RPD											
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B04.01	SX_OB_20220312_08_13_SS_Trii	12/03/2022		871152	MGT	Interlab_D	EM2204526025	<0.5	<0.5	<0.5	<0.5
RPD											
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5
RPD											
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5
RPD											
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5
RPD								0	0	0	0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5
RPD											
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5
RPD											
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.5	<0.50	<0.50	<0.50
RPD								0	0	0	0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220313_15_49_SS_Trii	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5
RPD											
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.5	<0.50	<0.50	<0.50
RPD								0	0	0	0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.5	<0.50	<0.50	<0.50
RPD											
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<0.5	<0.5	<0.5	<0.5
RPD								0	0	0	0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.5	<0.50	<0.50	<0.50
B05.01	SX_OB_20220313_08_54_SS_Trii	13/03/2022		871152	MGT	Interlab_D	EM2204526033	<0.5	<0.5	<0.5	<0.5
RPD											

						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
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033										
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD																
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017		<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal			<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal											
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041										
RPD																

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

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

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

								NA									
								Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	Arochlor 1232	Arochlor 1242	Arochlor 1248
								mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	%	mg/kg	mg/kg	mg/kg
								0.5	0.5	0.5	0.5	0.5	0.05	1	0.1	0.1	0.1
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample										
EQL								0.5	0.5	0.5	0.5	0.5	0.05	1	0.1	0.1	0.1
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5	<0.5	<10		<0.1	<0.1	<0.1
RPD								0	0	0	0	0			0	0	0

						NA											
						Carbon tetrachloride	Chlorodibromomethane	Chloroethane	trans-1,2-dichloroethene	Tetrachloroethene	Sum of WA DWER PFAS (n=10)*	Moisture Content	Arochlor 1232	Arochlor 1242	Arochlor 1248		
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	UG/KG	µg/L	%	mg/kg	mg/kg	mg/kg	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033					<0.05	<0.05					
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1	<0.1	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1	<0.1	
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1	<0.1	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.50		<0.50	<0.50	<10.0	<0.05	33.5				
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1	<0.1	
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342						<0.05					
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.50		<0.50	<0.50	<10.0	<0.05	36.6				
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.50		<0.50	<0.50	<10.0	<0.05	36.9				
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.50		<0.50	<0.50	<10.0	<0.05	36.6				
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.5	<0.5	<0.5	<10			<0.1	<0.1	<0.1	
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.05					
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041						<0.05					
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.05					
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041					<0.05						
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal							<0.05					
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041					<0.05						
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 (Final)	pH of Leaching Fluid	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total	
								mg/kg	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	100	1	5	
Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample												
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.1	300	33	<5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.1	<0.1	<0.1	<0.1	<0.1				8.5	120	32	<5
RPD								0	0	0	0	0				5	86	3	0
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.1	300	33	<5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326						5.2	5.1					
RPD																			
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.1	300	33	<5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326						8.9	5.1					
RPD																			
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.1	300	33	<5
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326					<0.1	5.0	5.0		<100			<5
RPD												0					100		0
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.1	300	33	<5
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326						8.9						
RPD																			
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal						<0.1	5.0	5.0		120			<5
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001					<0.1	5.0	5.0		140			<5
RPD												0	0	0		15			0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	<0.1	5.0	5.0		120			<5
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001						9.0						
RPD													57						
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	<0.1	5.0	5.0		120			<5
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<0.1	<0.1	<0.1	<0.1	<0.1				8.7	140	32	<5
RPD												0				15			0
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal							7.6						
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025						5.2	5.1					
RPD													37						
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal							7.6						
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025						9.1	5.1					
RPD													18						
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334						5.2	5.1					
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334						9.1	5.1					
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.1	<0.1	<0.1	<0.1	<0.1				8.6	<100	33	<5
RPD								0	0	0	0	0				2	0	6	0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334						5.2	5.1					
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334						9.1	5.1					
RPD																			
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334					<0.1	5.0	5.0		120			<5
RPD												0				18			0
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1	<0.1				8.8	<100	35	<5
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334						9.0						
RPD																			
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	<0.1	5.0	5.0		120			<5
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009					<0.1	5.0	5.0		120			<5
RPD												0	0	0		0			0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	<0.1	5.0	5.0		120			<5
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009						8.7						
RPD													54						
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.1	<0.1	<0.1	<0.1	<0.1	5.0	5.0		120			<5
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<0.1	<0.1	<0.1	<0.1	<0.1				8.4	<100	35	<5
RPD												0				18			0
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal							8.6						
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033						5.1	5.1					
RPD													51						

						PCBs					Inorganics					
						Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	pH (Final)	pH of Leaching Fluid	pH (aqueous extract)	Fluoride	Moisture Content (dried @ 103°C)	Cyanide Total
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				mg/kg	%	mg/kg
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal						8.6	-				
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033					8.9	5.1				
RPD											3					
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1			8.4	<100	33	<5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.1	<0.1	<0.1	<0.1			8.4	<100	32	<5
RPD							0	0	0	0			0	0	3	0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1			8.4	<100	33	<5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.1	<0.1	<0.1	<0.1	5.1	5.0		110		<5
RPD										0				10		0
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.1	<0.1	<0.1	<0.1			8.4	<100	33	<5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342					8.9					
RPD																
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal					<0.1	5.1	5.0		160		<5
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017				<0.1	5.1	5.0		170		<5
RPD										0	0	0		6		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal					<0.1	5.1	5.0		160		<5
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.1	<0.1	<0.1	<0.1			9.1	<100	35	<5
RPD										0				46		0
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal						9.4					
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041					9.3					
RPD											1					
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal						9.4					
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041					5.2	5.1				
RPD											58					
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal						9.4					
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041					9.5	5.1				
RPD											1					

*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					Halogenated Hydrocarbons					
								1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane
								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											
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_01_SS_Du	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<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	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_01_SS_Du	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_01_SS_Du	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
RPD								0	0	0	0	0	0	0	0	0		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50		<0.50		<0.50					
B04.01	SX_OB_20220312_08_12_SS_Du	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.50	<0.50		<0.50		<0.50					
RPD								0	0	0	0		0					
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50		<0.50		<0.50					
B04.01	SX_OB_20220312_08_12_SS_Du	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001	<0.50	<0.50		<0.50		<0.50					
RPD																		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50		<0.50		<0.50					
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<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		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal												
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025											
RPD																		
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal												
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025											
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_15_43_SS_Du	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220314_15_43_SS_Du	14/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_48_SS_Du	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<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		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_48_SS_Du	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
RPD								0	0	0	0	0	0	0	0	0		
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
RPD																		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50		<0.50		<0.50					
B05.01	SX_OB_20220313_08_53_SS_Du	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.50	<0.50		<0.50		<0.50					
RPD								0	0	0	0		0					
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50		<0.50		<0.50					
B05.01	SX_OB_20220313_08_53_SS_Du	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009	<0.50	<0.50		<0.50		<0.50					
RPD																		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50		<0.50		<0.50					
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<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		
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033											
RPD																		

							Halogenated Benzenes						Halogenated Hydrocarbons				
							1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Bromobenzene	4-chlorotoluene	Chlorobenzene	Iodomethane	Bromomethane	1,2-dibromoethane	Dichlorodifluoromethane
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033											
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	<0.50	<0.50	<0.50		<0.50						
RPD																	
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342											
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50	<0.50		<0.50						
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017	<0.50	<0.50	<0.50		<0.50						
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal		<0.50	<0.50	<0.50		<0.50						
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041											
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041											
RPD																	
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal												
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041											
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	MAH							Solvents				
								Trichlorofluoromethane	Total MAH	Monocyclic aromatic hydrocarbons EPAVic	1,3,5-trimethylbenzene	Styrene	Isopropylbenzene	1,2,4-trimethylbenzene	4-Methyl-2-pentanone	Acetone	Allyl chloride	Carbon disulfide	
								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
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<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

							MAH						Solvents					
							Trichlorofluoromethane mg/kg	Total MAH mg/kg	Monocyclic aromatic hydrocarbons EPA/Vic mg/kg	1,3,5-trimethylbenzene mg/kg	Styrene mg/kg	Isopropylbenzene mg/kg	1,2,4-trimethylbenzene mg/kg	4-Methyl-2-pentanone mg/kg	Acetone mg/kg	Allyl chloride mg/kg	Carbon disulfide mg/kg	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022	871152	MGT	Interlab_D	EM2204526033												
RPD																		
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022	871152	MGT	Field_D	M22-Ma28342	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																		
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342			<0.5	<0.5								
RPD																		
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022	871152	MGT	Normal		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022	EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342												
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal				<0.5	<0.5								
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526017			<0.5	<0.5								
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal				<0.5	<0.5								
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022	EM2204526	ALSE-Melbourne	Field_D	EM2204526041												
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041												
RPD																		
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022	EM2204526	ALSE-Melbourne	Normal													
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022	871152	MGT	Interlab_D	EM2204526041												
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

								SPOCAS	
								Methyl Ethyl Ketone	pH (CaCl2)
								mg/kg	-
EQL								0.5	0.1

Location Code	Field ID	Date	Depth	Lab Report Number	Lab Name	Sample Type	Parent Sample		
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326	<0.5	
RPD								0	
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326		
RPD									
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	
B04.01	SX_OB_20220312_16_01_SS_Dui	12/03/2022		871152	MGT	Field_D	M22-Ma28326		
RPD									
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326		7.8
RPD									
B04.01	SX_OB_20220312_16_01_SS_Prii	12/03/2022		871152	MGT	Normal		<0.5	
B04.01	SX_OB_20220312_16_02_SS_Trij	12/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28326		
RPD									
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal			7.8
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001		7.6
RPD									3
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal			7.8
B04.01	SX_OB_20220312_08_12_SS_Dui	12/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526001		
RPD									
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal			7.8
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526001	<0.5	
RPD									
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal			
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025		
RPD									
B04.01	SX_OB_20220312_08_11_SS_Prii	12/03/2022		EM2204526	ALSE-Melbourne	Normal			
B04.01	SX_OB_20220312_08_13_SS_Trij	12/03/2022		871152	MGT	Interlab_D	EM2204526025		
RPD									
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334		
RPD									
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28334		
RPD									
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334	<0.5	
RPD								0	
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	
B05.01	SX_OB_20220313_15_48_SS_Dui	13/03/2022		871152	MGT	Field_D	M22-Ma28334		
RPD									
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334		7.8
RPD									
B05.01	SX_OB_20220313_15_44_SS_Prii	13/03/2022		871152	MGT	Normal		<0.5	
B05.01	SX_OB_20220313_15_49_SS_Trij	13/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28334		
RPD									
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal			7.6
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009		7.6
RPD								0	
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal			7.6
B05.01	SX_OB_20220313_08_53_SS_Dui	13/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526009		
RPD									
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal			7.6
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526009	<0.5	
RPD									
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal			
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033		
RPD									

							SPOCAS	
							Methyl Ethyl Ketone	pH (CaCl2)
							mg/kg	-
B05.01	SX_OB_20220313_08_48_SS_Prii	13/03/2022		EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220313_08_54_SS_Trij	13/03/2022		871152	MGT	Interlab_D	EM2204526033	
RPD								
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.5
B05.01	SX_OB_20220314_15_43_SS_Dui	14/03/2022		871152	MGT	Field_D	M22-Ma28342	<0.5
RPD								
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	7.6
RPD								
B05.01	SX_OB_20220314_15_42_SS_Prii	14/03/2022		871152	MGT	Normal		<0.5
B05.01	SX_OB_20220314_15_44_SS_Trij	14/03/2022		EM2204526	ALSE-Melbourne	Interlab_D	M22-Ma28342	
RPD								
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		8.3
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526017	8.1
RPD								
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		8.3
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526017	<0.5
RPD								
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_08_00_SS_Dui	14/03/2022		EM2204526	ALSE-Melbourne	Field_D	EM2204526041	
RPD								
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041	
RPD								
B05.01	SX_OB_20220314_07_59_SS_Prii	14/03/2022		EM2204526	ALSE-Melbourne	Normal		
B05.01	SX_OB_20220314_08_01_SS_Trij	14/03/2022		871152	MGT	Interlab_D	EM2204526041	
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:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001 01</u>
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ATTACHMENT B: 95% UCL AVE CALCULATIONS

	A	B	C	D	E	F	G	H	I	J	K	L				
1	UCL Statistics for Data Sets with Non-Detects															
2																
3	User Selected Options															
4	Date/Time of Computation		ProUCL 5.130/03/2022 11:07:11 AM													
5	From File		WorkSheet.xls													
6	Full Precision		OFF													
7	Confidence Coefficient		95%													
8	Number of Bootstrap Operations		2000													
9																
10																
11	Arsenic															
12																
13	General Statistics															
14	Total Number of Observations				30		Number of Distinct Observations				17					
15									Number of Missing Observations				8			
16	Minimum				14		Mean				25.3					
17	Maximum				44		Median				23					
18	SD				6.455		Std. Error of Mean				1.178					
19	Coefficient of Variation				0.255		Skewness				0.929					
20																
21	Normal GOF Test															
22	Shapiro Wilk Test Statistic				0.935		Shapiro Wilk GOF Test									
23	5% Shapiro Wilk Critical Value				0.927		Data appear Normal at 5% Significance Level									
24	Lilliefors Test Statistic				0.173		Lilliefors GOF Test									
25	5% Lilliefors Critical Value				0.159		Data Not Normal at 5% Significance Level									
26	Data appear Approximate Normal at 5% Significance Level															
27																
28	Assuming Normal Distribution															
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)									
30	95% Student's-t UCL				27.3		95% Adjusted-CLT UCL (Chen-1995)				27.45					
31							95% Modified-t UCL (Johnson-1978)				27.34					
32																
33	Gamma GOF Test															
34	A-D Test Statistic				0.522		Anderson-Darling Gamma GOF Test									
35	5% A-D Critical Value				0.745		Detected data appear Gamma Distributed at 5% Significance Level									
36	K-S Test Statistic				0.153		Kolmogorov-Smirnov Gamma GOF Test									
37	5% K-S Critical Value				0.16		Detected data appear Gamma Distributed at 5% Significance Level									
38	Detected data appear Gamma Distributed at 5% Significance Level															
39																
40	Gamma Statistics															
41	k hat (MLE)				17.01		k star (bias corrected MLE)				15.33					
42	Theta hat (MLE)				1.487		Theta star (bias corrected MLE)				1.65					
43	nu hat (MLE)				1021		nu star (bias corrected)				919.8					
44	MLE Mean (bias corrected)				25.3		MLE Sd (bias corrected)				6.462					
45									Approximate Chi Square Value (0.05)				850.4			
46	Adjusted Level of Significance				0.041						Adjusted Chi Square Value				846.6	
47																
48	Assuming Gamma Distribution															
49	95% Approximate Gamma UCL (use when n>=50))				27.36		95% Adjusted Gamma UCL (use when n<50)				27.49					
50																
51	Lognormal GOF Test															
52	Shapiro Wilk Test Statistic				0.974		Shapiro Wilk Lognormal GOF Test									
53	5% Shapiro Wilk Critical Value				0.927		Data appear Lognormal at 5% Significance Level									
54	Lilliefors Test Statistic				0.139		Lilliefors Lognormal GOF Test									
55	5% Lilliefors Critical Value				0.159		Data appear Lognormal at 5% Significance Level									
56	Data appear Lognormal at 5% Significance Level															
57																
58	Lognormal Statistics															

	A	B	C	D	E	F	G	H	I	J	K	L
59	Minimum of Logged Data					2.639	Mean of logged Data					3.201
60	Maximum of Logged Data					3.784	SD of logged Data					0.246
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL					27.45	90% Chebyshev (MVUE) UCL					28.73
64	95% Chebyshev (MVUE) UCL					30.29	97.5% Chebyshev (MVUE) UCL					32.45
65	99% Chebyshev (MVUE) UCL					36.71						
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					27.24	95% Jackknife UCL					27.3
72	95% Standard Bootstrap UCL					27.21	95% Bootstrap-t UCL					27.63
73	95% Hall's Bootstrap UCL					27.84	95% Percentile Bootstrap UCL					27.17
74	95% BCA Bootstrap UCL					27.3						
75	90% Chebyshev(Mean, Sd) UCL					28.84	95% Chebyshev(Mean, Sd) UCL					30.44
76	97.5% Chebyshev(Mean, Sd) UCL					32.66	99% Chebyshev(Mean, Sd) UCL					37.03
77												
78	Suggested UCL to Use											
79	95% Student's-t UCL					27.3						
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					30	Number of Distinct Observations					19
94							Number of Missing Observations					8
95	Minimum					139	Mean					183
96	Maximum					240	Median					173
97	SD					29.8	Std. Error of Mean					5.441
98	Coefficient of Variation					0.163	Skewness					0.523
99												
100	Normal GOF Test											
101	Shapiro Wilk Test Statistic					0.909	Shapiro Wilk GOF Test					
102	5% Shapiro Wilk Critical Value					0.927	Data Not Normal at 5% Significance Level					
103	Lilliefors Test Statistic					0.169	Lilliefors GOF Test					
104	5% Lilliefors Critical Value					0.159	Data Not Normal at 5% Significance Level					
105	Data Not 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					192.2	95% Adjusted-CLT UCL (Chen-1995)					192.5
110							95% Modified-t UCL (Johnson-1978)					192.3
111												
112	Gamma GOF Test											
113	A-D Test Statistic					0.893	Anderson-Darling Gamma GOF Test					
114	5% A-D Critical Value					0.744	Data Not Gamma Distributed at 5% Significance Level					
115	K-S Test Statistic					0.159	Kolmogorov-Smirnov Gamma GOF Test					
116	5% K-S Critical Value					0.16	Detected data appear Gamma Distributed at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
117	Detected data follow Appr. Gamma Distribution at 5% Significance Level											
118												
119	Gamma Statistics											
120	k hat (MLE)				40.38		k star (bias corrected MLE)				36.36	
121	Theta hat (MLE)				4.532		Theta star (bias corrected MLE)				5.033	
122	nu hat (MLE)				2423		nu star (bias corrected)				2182	
123	MLE Mean (bias corrected)				183		MLE Sd (bias corrected)				30.35	
124							Approximate Chi Square Value (0.05)			2074		
125	Adjusted Level of Significance				0.041		Adjusted Chi Square Value				2068	
126												
127	Assuming Gamma Distribution											
128	95% Approximate Gamma UCL (use when n>=50)				192.5		95% Adjusted Gamma UCL (use when n<50)				193	
129												
130	Lognormal GOF Test											
131	Shapiro Wilk Test Statistic				0.927		Shapiro Wilk Lognormal GOF Test					
132	5% Shapiro Wilk Critical Value				0.927		Data Not Lognormal at 5% Significance Level					
133	Lilliefors Test Statistic				0.15		Lilliefors Lognormal GOF Test					
134	5% Lilliefors Critical Value				0.159		Data appear Lognormal at 5% Significance Level					
135	Data appear Approximate Lognormal at 5% Significance Level											
136												
137	Lognormal Statistics											
138	Minimum of Logged Data				4.934		Mean of logged Data				5.197	
139	Maximum of Logged Data				5.481		SD of logged Data				0.159	
140												
141	Assuming Lognormal Distribution											
142	95% H-UCL				192.7		90% Chebyshev (MVUE) UCL				199	
143	95% Chebyshev (MVUE) UCL				206.3		97.5% Chebyshev (MVUE) UCL				216.3	
144	99% Chebyshev (MVUE) UCL				236.1							
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				191.9		95% Jackknife UCL				192.2	
151	95% Standard Bootstrap UCL				191.8		95% Bootstrap-t UCL				193	
152	95% Hall's Bootstrap UCL				192.5		95% Percentile Bootstrap UCL				192.2	
153	95% BCA Bootstrap UCL				192.3							
154	90% Chebyshev(Mean, Sd) UCL				199.3		95% Chebyshev(Mean, Sd) UCL				206.7	
155	97.5% Chebyshev(Mean, Sd) UCL				217		99% Chebyshev(Mean, Sd) UCL				237.1	
156												
157	Suggested UCL to Use											
158	95% Adjusted Gamma UCL				193							
159												
160	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
161	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
162												
163	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
164	Recommendations are based upon data size, data distribution, and skewness.											
165	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
166	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
167												

TBM Spoil Waste Categorisation Report

TBM Spoil Waste Cat Report No:	B05.0120220330125621_04	This report is attached as part of a WCR form referencing <u>WGT-302-000-WKN-CJH-105-SWI-0001 01</u>
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ATTACHMENT C: LABORATORY CERTIFICATES

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: **Agon Lab Reports (Spoil Project)**

Report **871152-S**
Project name **20220315043631-Eurofin-21 solid_00**
Project ID **JC0927**
Received Date **Mar 15, 2022**

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_16_01_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28323	M22-Ma28324	M22-Ma28325	M22-Ma28326
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
Hexachlorobutadiene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_16_01_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28323	M22-Ma28324	M22-Ma28325	M22-Ma28326
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 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	%	65	75	70	77
Toluene-d8 (surr.)	1	%	80	87	82	92
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_16_01_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28323	M22-Ma28324	M22-Ma28325	M22-Ma28326
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 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
Benzo(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	%	92	84	91	84
p-Terphenyl-d14 (surr.)	1	%	96	88	95	92
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	108	91	91	88
Tetrachloro-m-xylene (surr.)	1	%	123	126	113	126

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_16_01_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28323	M22-Ma28324	M22-Ma28325	M22-Ma28326
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 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	%	108	91	91	88
Tetrachloro-m-xylene (surr.)	1	%	123	126	113	126
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	%	82	82	93	85
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)	100	mg/kg	170	140	120	300
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.3	8.7	8.4	8.1
% Moisture	1	%	35	32	35	33
Heavy Metals						
Arsenic	2	mg/kg	23	21	24	35
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	130	110	120	130
Copper	5	mg/kg	64	65	66	62
Lead	5	mg/kg	5.5	< 5	5.4	5.3
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_16_01_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28323	M22-Ma28324	M22-Ma28325	M22-Ma28326
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	170	180	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	100	130	130	180
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	65	145	122	82
13C5-PFPeA (surr.)	1	%	56	138	132	68
13C5-PFHxA (surr.)	1	%	65	149	120	80
13C4-PFHpA (surr.)	1	%	63	150	119	80
13C8-PFOA (surr.)	1	%	64	137	130	79
13C5-PFNA (surr.)	1	%	57	112	101	75
13C6-PFDA (surr.)	1	%	68	150	117	81
13C2-PFUnDA (surr.)	1	%	72	149	122	80
13C2-PFDoDA (surr.)	1	%	51	125	113	78
13C2-PFTeDA (surr.)	1	%	42	76	80	59
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	65	154	122	87
D3-N-MeFOSA (surr.)	1	%	58	120	113	82
D5-N-EtFOSA (surr.)	1	%	57	103	106	85
D7-N-MeFOSE (surr.)	1	%	60	120	109	83
D9-N-EtFOSE (surr.)	1	%	54	101	99	84
D5-N-EtFOSAA (surr.)	1	%	52	159	135	81
D3-N-MeFOSAA (surr.)	1	%	64	173	145	79

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _TriPLICATE_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_16_01_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28323	M22-Ma28324	M22-Ma28325	M22-Ma28326
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	64	146	123	75
18O2-PFHxS (surr.)	1	%	79	145	139	102
13C8-PFOS (surr.)	1	%	67	149	146	87
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	59	146	134	80
13C2-6:2 FTSA (surr.)	1	%	52	145	118	66
13C2-8:2 FTSA (surr.)	1	%	65	130	98	83
13C2-10:2 FTSA (surr.)	1	%	55	178	148	87
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 312_16_02_SS _Duplicate_EU F	SX_OB_20220 312_20_04_SS _Primary_EUF	SX_OB_20220 313_00_03_SS _Primary_EUF	SX_OB_20220 313_04_06_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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	%	83	59	91	56
Toluene-d8 (surr.)	1	%	80	60	90	55
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	%	123	128	118	125
p-Terphenyl-d14 (surr.)	1	%	118	116	122	119

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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
Dibutylchloroendate (surr.)	1	%	128	124	117	115
Tetrachloro-m-xylene (surr.)	1	%	57	57	61	148
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	128	124	117	115
Tetrachloro-m-xylene (surr.)	1	%	57	57	61	148
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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	%	34	42	40	42
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	1.1	1.2	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	120	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.5	8.9	8.5	8.5
% Moisture						
% Moisture	1	%	32	33	32	32
Heavy Metals						
Arsenic	2	mg/kg	25	30	23	29
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	130	170	120	140
Copper	5	mg/kg	59	87	61	78
Lead	5	mg/kg	< 5	7.0	< 5	5.9
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	180	200	170	220
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	160
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 (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	81	56	79	109
13C5-PFPeA (surr.)	1	%	65	57	82	113
13C5-PFHxA (surr.)	1	%	77	61	76	105

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	78	59	77	107
13C8-PFOA (surr.)	1	%	72	58	69	100
13C5-PFNA (surr.)	1	%	73	57	70	85
13C6-PFDA (surr.)	1	%	88	53	76	111
13C2-PFUnDA (surr.)	1	%	77	43	81	95
13C2-PFDoDA (surr.)	1	%	65	31	68	77
13C2-PFTeDA (surr.)	1	%	53	12	64	50
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	77	51	82	105
D3-N-MeFOSA (surr.)	1	%	74	42	72	86
D5-N-EtFOSA (surr.)	1	%	73	38	74	85
D7-N-MeFOSE (surr.)	1	%	75	46	75	87
D9-N-EtFOSE (surr.)	1	%	75	41	74	84
D5-N-EtFOSAA (surr.)	1	%	64	36	71	87
D3-N-MeFOSAA (surr.)	1	%	68	34	72	106
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	74	56	67	105
18O2-PFHxS (surr.)	1	%	76	68	98	122
13C8-PFOS (surr.)	1	%	90	57	78	105
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	80	57	81	107
13C2-6:2 FTSA (surr.)	1	%	78	57	82	89

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28327	M22-Ma28328	M22-Ma28329	M22-Ma28330
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-8:2 FTSA (surr.)	1	%	70	55	78	102
13C2-10:2 FTSA (surr.)	1	%	64	34	79	84
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 313_08_54_SS TriPLICATE_EU F	SX_OB_20220 313_09_00_SS Primary_EUF	SX_OB_20220 313_11_47_SS Primary_EUF	SX_OB_20220 313_15_44_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28331	M22-Ma28332	M22-Ma28333	M22-Ma28334
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 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

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28331	M22-Ma28332	M22-Ma28333	M22-Ma28334
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
1,3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1,2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	91	58	57	55
Toluene-d8 (surr.)	1	%	90	57	57	52

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28331	M22-Ma28332	M22-Ma28333	M22-Ma28334
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	132	121	140	121
p-Terphenyl-d14 (surr.)	1	%	133	117	132	114
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

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28331	M22-Ma28332	M22-Ma28333	M22-Ma28334
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	126	111	117	107
Tetrachloro-m-xylene (surr.)	1	%	66	55	60	56
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	126	111	117	107
Tetrachloro-m-xylene (surr.)	1	%	66	55	60	56
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	%	46	37	45	40
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	1.1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.4	8.5	8.7	8.8
% Moisture						
% Moisture	1	%	35	34	33	35

Client Sample ID			SX_OB_20220 313_08_54_SS _Triuplicate_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28331	M22-Ma28332	M22-Ma28333	M22-Ma28334
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	30	26	44	28
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	140	130	140	130
Copper	5	mg/kg	83	67	78	81
Lead	5	mg/kg	6.6	5.4	6.8	6.1
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	230	200	240	230
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	150	140	160	160
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	62	79	105	92
13C5-PFPeA (surr.)	1	%	61	78	84	92
13C5-PFHxA (surr.)	1	%	64	74	104	93
13C4-PFHpA (surr.)	1	%	61	73	104	85
13C8-PFOA (surr.)	1	%	56	74	113	86
13C5-PFNA (surr.)	1	%	58	69	87	85
13C6-PFDA (surr.)	1	%	60	76	105	93
13C2-PFUnDA (surr.)	1	%	64	77	102	96
13C2-PFDoDA (surr.)	1	%	56	65	90	82
13C2-PFTeDA (surr.)	1	%	42	61	74	66
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	%	63	75	112	97
D3-N-MeFOSA (surr.)	1	%	63	71	99	84

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28331	M22-Ma28332	M22-Ma28333	M22-Ma28334
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	63	76	109	101
D7-N-MeFOSE (surr.)	1	%	68	71	102	98
D9-N-EtFOSE (surr.)	1	%	60	69	98	94
D5-N-EtFOSAA (surr.)	1	%	43	62	115	86
D3-N-MeFOSAA (surr.)	1	%	53	67	120	85
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	56	70	102	93
18O2-PFHxS (surr.)	1	%	62	86	125	120
13C8-PFOS (surr.)	1	%	69	78	99	102
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	65	77	105	93
13C2-6:2 FTSA (surr.)	1	%	53	76	116	78
13C2-8:2 FTSA (surr.)	1	%	70	71	92	87
13C2-10:2 FTSA (surr.)	1	%	63	67	103	104
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28335	M22-Ma28336	M22-Ma28337	M22-Ma28338
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 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
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

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28335	M22-Ma28336	M22-Ma28337	M22-Ma28338
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	109	118	86	94
Toluene-d8 (surr.)	1	%	96	109	88	93
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

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28335	M22-Ma28336	M22-Ma28337	M22-Ma28338
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	125	124	123	121
p-Terphenyl-d14 (surr.)	1	%	121	131	118	113
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	113	128	117	110
Tetrachloro-m-xylene (surr.)	1	%	54	62	63	58
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	113	128	117	110
Tetrachloro-m-xylene (surr.)	1	%	54	62	63	58

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28335	M22-Ma28336	M22-Ma28337	M22-Ma28338
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
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	%	44	37	40	42
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	1.1	1.1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.6	8.5	8.6	8.8
% Moisture						
% Moisture	1	%	33	31	35	37
Heavy Metals						
Arsenic	2	mg/kg	22	31	25	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	120	160	130	120
Copper	5	mg/kg	75	71	73	73
Lead	5	mg/kg	< 5	6.5	5.5	5.4
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	180	230	200	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	130	160	130	170
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28335	M22-Ma28336	M22-Ma28337	M22-Ma28338
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	%	83	105	85	88
13C5-PFPeA (surr.)	1	%	83	107	78	68
13C5-PFHxA (surr.)	1	%	80	106	85	86
13C4-PFHpA (surr.)	1	%	83	112	86	87
13C8-PFOA (surr.)	1	%	88	114	90	86
13C5-PFNA (surr.)	1	%	86	96	78	88
13C6-PFDA (surr.)	1	%	84	115	87	78
13C2-PFUnDA (surr.)	1	%	89	113	104	106
13C2-PFDoDA (surr.)	1	%	69	100	78	85
13C2-PFTeDA (surr.)	1	%	65	81	77	73
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	84	110	94	89
D3-N-MeFOSA (surr.)	1	%	87	111	98	98
D5-N-EtFOSA (surr.)	1	%	98	125	105	100
D7-N-MeFOSE (surr.)	1	%	90	113	95	86
D9-N-EtFOSE (surr.)	1	%	90	116	94	90
D5-N-EtFOSAA (surr.)	1	%	66	101	72	73
D3-N-MeFOSAA (surr.)	1	%	82	103	100	91
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	80	111	77	88
18O2-PFHxS (surr.)	1	%	109	121	108	99
13C8-PFOS (surr.)	1	%	86	113	106	101

Client Sample ID			SX_OB_20220 313_15_48_SS _Duplicate_EU F	SX_OB_20220 313_20_01_SS _Primary_EUF	SX_OB_20220 314_00_11_SS _Primary_EUF	SX_OB_20220 314_03_57_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28335	M22-Ma28336	M22-Ma28337	M22-Ma28338
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 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	%	89	105	84	97
13C2-6:2 FTSA (surr.)	1	%	78	100	82	85
13C2-8:2 FTSA (surr.)	1	%	88	103	87	89
13C2-10:2 FTSA (surr.)	1	%	69	116	89	103
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 314_08_01_SS _Triplicate_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28339	M22-Ma28340	M22-Ma28341	M22-Ma28342
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 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

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28339	M22-Ma28340	M22-Ma28341	M22-Ma28342
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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
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

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28339	M22-Ma28340	M22-Ma28341	M22-Ma28342
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	108	122	136	63
Toluene-d8 (surr.)	1	%	100	97	97	58
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	%	128	114	117	123
p-Terphenyl-d14 (surr.)	1	%	117	116	126	115
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28339	M22-Ma28340	M22-Ma28341	M22-Ma28342
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	%	117	130	121	111
Tetrachloro-m-xylene (surr.)	1	%	54	57	51	145
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	%	117	130	121	111
Tetrachloro-m-xylene (surr.)	1	%	54	57	51	145
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	%	42	40	41	42
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28339	M22-Ma28340	M22-Ma28341	M22-Ma28342
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	1	mg/kg	1.1	< 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	9.1	8.5	8.5	8.4
% Moisture	1	%	35	28	32	33
Heavy Metals						
Arsenic	2	mg/kg	24	36	36	29
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	120	130	120	120
Copper	5	mg/kg	64	59	69	67
Lead	5	mg/kg	5.2	6.1	< 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	170	190	170	230
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	150	140	130	190
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	70	103	86	81
13C5-PFPeA (surr.)	1	%	67	78	76	65
13C5-PFHxA (surr.)	1	%	69	100	86	84
13C4-PFHpA (surr.)	1	%	65	98	87	82
13C8-PFOA (surr.)	1	%	72	96	76	87
13C5-PFNA (surr.)	1	%	56	80	76	79
13C6-PFDA (surr.)	1	%	67	87	87	71
13C2-PFUnDA (surr.)	1	%	71	102	82	73
13C2-PFDoDA (surr.)	1	%	60	107	76	66
13C2-PFTeDA (surr.)	1	%	60	152	59	60
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

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_SS _Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28339	M22-Ma28340	M22-Ma28341	M22-Ma28342
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
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	%	71	106	89	81
D3-N-MeFOSA (surr.)	1	%	65	102	88	57
D5-N-EtFOSA (surr.)	1	%	63	110	73	50
D7-N-MeFOSE (surr.)	1	%	64	100	84	74
D9-N-EtFOSE (surr.)	1	%	59	104	79	67
D5-N-EtFOSAA (surr.)	1	%	49	105	90	73
D3-N-MeFOSAA (surr.)	1	%	61	115	97	78
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	65	99	89	83
18O2-PFHxS (surr.)	1	%	68	118	125	87
13C8-PFOS (surr.)	1	%	75	113	93	82
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 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	%	66	91	83	81
13C2-6:2 FTSA (surr.)	1	%	53	127	93	81
13C2-8:2 FTSA (surr.)	1	%	74	95	77	78
13C2-10:2 FTSA (surr.)	1	%	59	135	94	73
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28343	M22-Ma28344	M22-Ma28345	M22-Ma28346
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 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
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

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28343	M22-Ma28344	M22-Ma28345	M22-Ma28346
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	53	63	52	118
Toluene-d8 (surr.)	1	%	58	52	50	112
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

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28343	M22-Ma28344	M22-Ma28345	M22-Ma28346
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	75	67	96	101
p-Terphenyl-d14 (surr.)	1	%	70	58	96	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	128	109	107	148
Tetrachloro-m-xylene (surr.)	1	%	103	102	123	130
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	128	109	107	148
Tetrachloro-m-xylene (surr.)	1	%	103	102	123	130

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28343	M22-Ma28344	M22-Ma28345	M22-Ma28346
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
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	70	38	51
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Chromium (hexavalent)						
Chromium (hexavalent)	1	mg/kg	< 1	< 1	< 1	< 1
Cyanide (total)						
Cyanide (total)	5	mg/kg	< 5	< 5	< 5	< 5
Fluoride (Total)						
Fluoride (Total)	100	mg/kg	< 100	< 100	< 100	160
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.4	8.5	8.5	8.8
% Moisture						
% Moisture	1	%	32	31	31	37
Heavy Metals						
Arsenic	2	mg/kg	32	28	31	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	120	120	160	130
Copper	5	mg/kg	86	76	84	67
Lead	5	mg/kg	5.2	< 5	5.6	< 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	200	180	200	180
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	130	150	150	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

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_SS Primary_EUF
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28343	M22-Ma28344	M22-Ma28345	M22-Ma28346
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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 (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	101	73	106	97
13C5-PFPeA (surr.)	1	%	98	73	87	97
13C5-PFHxA (surr.)	1	%	100	78	109	94
13C4-PFHpA (surr.)	1	%	95	70	102	94
13C8-PFOA (surr.)	1	%	114	78	103	100
13C5-PFNA (surr.)	1	%	105	69	92	92
13C6-PFDA (surr.)	1	%	143	59	97	105
13C2-PFUnDA (surr.)	1	%	174	77	97	121
13C2-PFDoDA (surr.)	1	%	147	61	87	115
13C2-PFTTeDA (surr.)	1	%	105	54	41	83
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	%	123	72	102	110
D3-N-MeFOSA (surr.)	1	%	123	78	84	104
D5-N-EtFOSA (surr.)	1	%	120	80	85	111
D7-N-MeFOSE (surr.)	1	%	138	76	98	114
D9-N-EtFOSE (surr.)	1	%	124	76	84	105
D5-N-EtFOSAA (surr.)	1	%	154	56	104	96
D3-N-MeFOSAA (surr.)	1	%	153	67	107	107
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	96	72	100	88
18O2-PFHxS (surr.)	1	%	127	88	142	109
13C8-PFOS (surr.)	1	%	138	78	121	113

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Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M22-Ma28343	M22-Ma28344	M22-Ma28345	M22-Ma28346
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 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	%	104	66	104	105
13C2-6:2 FTSA (surr.)	1	%	111	87	97	86
13C2-8:2 FTSA (surr.)	1	%	118	79	97	99
13C2-10:2 FTSA (surr.)	1	%	140	76	104	127
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 - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Mar 17, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Mar 17, 2022	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Mar 17, 2022	14 Days
Volatile Organics - Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS	Melbourne	Mar 17, 2022	7 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)	Melbourne	Mar 17, 2022	7 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Mar 17, 2022	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)	Melbourne	Mar 17, 2022	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)	Melbourne	Mar 17, 2022	28 Days
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Mar 17, 2022	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Mar 17, 2022	14 Days
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Spectrometric detection	Melbourne	Mar 17, 2022	28 Days
Cyanide (total) - Method: LTM-INO-4020 Total Free WAD Cyanide by CFA	Melbourne	Mar 18, 2022	14 Days
Fluoride (Total) - Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE - Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC	Melbourne	Mar 18, 2022	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH in soil by ISE	Melbourne	Mar 17, 2022	7 Days
Metals IWRG 621 : Metals M12 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Mar 17, 2022	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Melbourne	Mar 15, 2022	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 15, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220312_08_00_S_S_Primary_EU F	Mar 12, 2022	8:00AM	Soil	M22-Ma28323		X	X	X
2	SX_OB_20220312_08_13_S_S_Triplicate_EU F	Mar 12, 2022	8:11AM	Soil	M22-Ma28324		X	X	X
3	SX_OB_20220312_12_10_S_S_Primary_EU F	Mar 12, 2022		Soil	M22-Ma28325		X	X	X

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

Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

Order No.:
Report #: 871152
Phone: 08 8338 1009
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Received: Mar 15, 2022 1:00 PM
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Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
4	SX_OB_20220312_16_01_S_S_Primary_EU_F	Mar 12, 2022	4:01PM	Soil	M22-Ma28326		X	X	X
5	SX_OB_20220312_16_02_S_S_Duplicate_EUF	Mar 12, 2022	4:02PM	Soil	M22-Ma28327		X	X	X
6	SX_OB_20220312_20_04_S_S_Primary_EU_F	Mar 12, 2022	8:04PM	Soil	M22-Ma28328		X	X	X
7	SX_OB_20220313_00_03_S	Mar 13, 2022	12:03PM	Soil	M22-Ma28329		X	X	X

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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
8	SX_OB_20220 313_04_06_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28330		X	X	X
9	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	Soil	M22-Ma28331		X	X	X
10	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28332		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
11	SX_OB_20220 313_11_47_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28333		X	X	X
12	SX_OB_20220 313_15_44_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28334		X	X	X
13	SX_OB_20220 313_15_48_S S_Duplicate_E UF	Mar 13, 2022	4:06AM	Soil	M22-Ma28335		X	X	X
14	SX_OB_20220 313_20_01_S	Mar 13, 2022	4:06AM	Soil	M22-Ma28336		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
15	SX_OB_20220 314_00_11_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28337		X	X	X
16	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28338		X	X	X
17	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	Soil	M22-Ma28339		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
18	SX_OB_20220 314_08_13_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28340		X	X	X
19	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28341		X	X	X
20	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28342		X	X	X
21	SX_OB_20220 314_15_43_S	Mar 14, 2022	4:06AM	Soil	M22-Ma28343		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF								
22	SX_OB_20220314_20_00_S_S_Primary_EUF	Mar 14, 2022	8:00PM	Soil	M22-Ma28344		X	X	X
23	SX_OB_20220315_00_04_S_S_Primary_EUF	Mar 15, 2022	12:04AM	Soil	M22-Ma28345		X	X	X
24	SX_OB_20220315_03_53_S_S_Primary_EUF	Mar 15, 2022	3:53AM	Soil	M22-Ma28346		X	X	X

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

Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

Order No.:
Report #: 871152
Phone: 08 8338 1009
Fax:

Received: Mar 15, 2022 1:00 PM
Due: Mar 22, 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 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
25	SX_OB_20220 312_08_00_S S_Primary_EU F	Mar 12, 2022	8:00AM	AUS Leachate - pH 5.0	M22-Ma28347	X		X	
26	SX_OB_20220 312_08_13_S S_Triplicate_E UF	Mar 12, 2022	8:11AM	AUS Leachate - pH 5.0	M22-Ma28348	X		X	
27	SX_OB_20220 312_12_10_S S_Primary_EU F	Mar 12, 2022		AUS Leachate - pH 5.0	M22-Ma28349	X		X	
28	SX_OB_20220 312_16_01_S	Mar 12, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ma28350	X		X	

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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
29	SX_OB_20220 312_16_02_S S_Duplicate_E UF	Mar 12, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ma28351	X		X	
30	SX_OB_20220 312_20_04_S S_Primary_EU F	Mar 12, 2022	8:04PM	AUS Leachate - pH 5.0	M22-Ma28352	X		X	
31	SX_OB_20220 313_00_03_S S_Primary_EU F	Mar 13, 2022	12:03PM	AUS Leachate - pH 5.0	M22-Ma28353	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
32	SX_OB_20220 313_04_06_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28354	X		X	
33	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28355	X		X	
34	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28356	X		X	
35	SX_OB_20220 313_11_47_S	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28357	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
36	SX_OB_20220 313_15_44_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28358	X		X	
37	SX_OB_20220 313_15_48_S S_Duplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28359	X		X	
38	SX_OB_20220 313_20_01_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28360	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
39	SX_OB_20220314_00_11_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28361	X		X	
40	SX_OB_20220314_03_57_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28362	X		X	
41	SX_OB_20220314_08_01_S_S_Triplicate_EUF	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28363	X		X	
42	SX_OB_20220314_08_13_S	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28364	X		X	

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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
43	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28365	X		X	
44	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28366	X		X	
45	SX_OB_20220 314_15_43_S S_Duplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28367	X		X	

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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
46	SX_OB_20220 314_20_00_S S_Primary_EU F	Mar 14, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Ma28368	X		X	
47	SX_OB_20220 315_00_04_S S_Primary_EU F	Mar 15, 2022	12:04AM	AUS Leachate - pH 5.0	M22-Ma28369	X		X	
48	SX_OB_20220 315_03_53_S S_Primary_EU F	Mar 15, 2022	3:53AM	AUS Leachate - pH 5.0	M22-Ma28370	X		X	
49	SX_OB_20220 312_08_00_S	Mar 12, 2022	8:00AM	AUS Leachate - Reagent	M22-Ma28371	X		X	

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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
50	SX_OB_20220 312_08_13_S S_Triplicate_E UF	Mar 12, 2022	8:11AM	AUS Leachate - Reagent Water	M22-Ma28372	X		X	
51	SX_OB_20220 312_12_10_S S_Primary_EU F	Mar 12, 2022		AUS Leachate - Reagent Water	M22-Ma28373	X		X	
52	SX_OB_20220 312_16_01_S S_Primary_EU F	Mar 12, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ma28374	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
53	SX_OB_20220312_16_02_S_S_Duplicate_EUF	Mar 12, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Ma28375	X		X	
54	SX_OB_20220312_20_04_S_S_Primary_EUF	Mar 12, 2022	8:04PM	AUS Leachate - Reagent Water	M22-Ma28376	X		X	
55	SX_OB_20220313_00_03_S_S_Primary_EUF	Mar 13, 2022	12:03PM	AUS Leachate - Reagent Water	M22-Ma28377	X		X	
56	SX_OB_20220313_04_06_S	Mar 13, 2022	4:06AM	AUS Leachate - Reagent	M22-Ma28378	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
57	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28379	X		X	
58	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28380	X		X	
59	SX_OB_20220 313_11_47_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28381	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
60	SX_OB_20220313_15_44_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28382	X		X	
61	SX_OB_20220313_15_48_S_S_Duplicate_EUF	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28383	X		X	
62	SX_OB_20220313_20_01_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28384	X		X	
63	SX_OB_20220314_00_11_S	Mar 14, 2022	4:06AM	AUS Leachate - Reagent	M22-Ma28385	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
64	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28386	X		X	
65	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28387	X		X	
66	SX_OB_20220 314_08_13_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28388	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
67	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28389	X		X	
68	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28390	X		X	
69	SX_OB_20220 314_15_43_S S_Duplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28391	X		X	
70	SX_OB_20220 314_20_00_S	Mar 14, 2022	8:00PM	AUS Leachate - Reagent	M22-Ma28392	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
71	SX_OB_20220 315_00_04_S S_Primary_EU F	Mar 15, 2022	12:04AM	AUS Leachate - Reagent Water	M22-Ma28393	X		X	
72	SX_OB_20220 315_03_53_S S_Primary_EU F	Mar 15, 2022	3:53AM	AUS Leachate - Reagent Water	M22-Ma28394	X		X	
Test Counts						48	24	72	24

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

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

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

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

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/kg	< 5		5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5		5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5		5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5		5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5		5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5		5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5		5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5		5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5		5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5		5	Pass	
Perfluorotetradecanoic acid (PFTTeDA)	ug/kg	< 5		5	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5		5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5		5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5		5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5		5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5		5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10		10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10		10	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5		5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5		5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5		5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5		5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5		5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5		5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5		5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5		5	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10		10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5		5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5		5	Pass	
LCS - % Recovery						
Total Recoverable Hydrocarbons						
TRH C6-C9	%	83		70-130	Pass	
TRH C10-C14	%	121		70-130	Pass	
Naphthalene	%	76		70-130	Pass	
TRH C6-C10	%	108		70-130	Pass	
TRH >C10-C16	%	118		70-130	Pass	
LCS - % Recovery						
Volatile Organics						
1.1-Dichloroethene	%	86		70-130	Pass	
1.1.1-Trichloroethane	%	74		70-130	Pass	
1.2-Dichlorobenzene	%	91		70-130	Pass	
1.2-Dichloroethane	%	71		70-130	Pass	
Benzene	%	75		70-130	Pass	
Ethylbenzene	%	88		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	%	90			70-130	Pass	
Toluene	%	84			70-130	Pass	
Trichloroethene	%	73			70-130	Pass	
Xylenes - Total*	%	91			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	90			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	81			70-130	Pass	
Benz(a)anthracene	%	101			70-130	Pass	
Benzo(a)pyrene	%	75			70-130	Pass	
Benzo(b&i)fluoranthene	%	84			70-130	Pass	
Benzo(g,h,i)perylene	%	83			70-130	Pass	
Benzo(k)fluoranthene	%	75			70-130	Pass	
Chrysene	%	81			70-130	Pass	
Dibenz(a,h)anthracene	%	74			70-130	Pass	
Fluoranthene	%	73			70-130	Pass	
Fluorene	%	79			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	75			70-130	Pass	
Naphthalene	%	80			70-130	Pass	
Phenanthrene	%	76			70-130	Pass	
Pyrene	%	75			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	95			70-130	Pass	
4,4'-DDD	%	75			70-130	Pass	
4,4'-DDE	%	79			70-130	Pass	
4,4'-DDT	%	90			70-130	Pass	
a-HCH	%	77			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-HCH	%	83			70-130	Pass	
d-HCH	%	82			70-130	Pass	
Dieldrin	%	73			70-130	Pass	
Endosulfan I	%	79			70-130	Pass	
Endosulfan II	%	80			70-130	Pass	
Endosulfan sulphate	%	73			70-130	Pass	
Endrin	%	92			70-130	Pass	
Endrin aldehyde	%	116			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-HCH (Lindane)	%	77			70-130	Pass	
Heptachlor	%	93			70-130	Pass	
Heptachlor epoxide	%	105			70-130	Pass	
Hexachlorobenzene	%	74			70-130	Pass	
Methoxychlor	%	100			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	110			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	83			25-140	Pass	
2,4-Dichlorophenol	%	82			25-140	Pass	
2,4,5-Trichlorophenol	%	74			25-140	Pass	
2,4,6-Trichlorophenol	%	69			25-140	Pass	
2,6-Dichlorophenol	%	73			25-140	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4-Chloro-3-methylphenol	%	84			25-140	Pass	
Pentachlorophenol	%	54			25-140	Pass	
Tetrachlorophenols - Total	%	67			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	%	35			25-140	Pass	
2-Methyl-4,6-dinitrophenol	%	54			25-140	Pass	
2-Nitrophenol	%	89			25-140	Pass	
2,4-Dimethylphenol	%	70			25-140	Pass	
2,4-Dinitrophenol	%	53			25-140	Pass	
2-Methylphenol (o-Cresol)	%	86			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	30			25-140	Pass	
4-Nitrophenol	%	62			25-140	Pass	
Dinoseb	%	68			25-140	Pass	
Phenol	%	84			25-140	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	89			70-130	Pass	
Cyanide (total)	%	106			70-130	Pass	
Fluoride (Total)	%	108			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	99			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	100			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	98			80-120	Pass	
Molybdenum	%	102			80-120	Pass	
Nickel	%	97			80-120	Pass	
Selenium	%	97			80-120	Pass	
Silver	%	106			80-120	Pass	
Tin	%	101			80-120	Pass	
Zinc	%	99			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	114			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	99			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	107			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	103			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	112			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	134			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	111			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	132			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	113			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	122			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	112			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	112			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	112			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	113			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	125			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)								
Perfluorobutanesulfonic acid (PFBS)	%	91			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	138			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	117			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	102			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	114			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	68			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	108			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	130			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	92			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	137			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)	%	120			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-Ma24957	NCP	%	121		70-130	Pass	
TRH >C10-C16	M22-Ma24957	NCP	%	115		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	M22-Ma20158	NCP	%	79		70-130	Pass	
Acenaphthylene	M22-Ma23540	NCP	%	79		70-130	Pass	
Anthracene	M22-Ma23540	NCP	%	71		70-130	Pass	
Benz(a)anthracene	M22-Ma23540	NCP	%	87		70-130	Pass	
Benzo(a)pyrene	M22-Ma23540	NCP	%	102		70-130	Pass	
Benzo(b&j)fluoranthene	M22-Ma23540	NCP	%	76		70-130	Pass	
Benzo(g,h,i)perylene	M22-Ma23540	NCP	%	71		70-130	Pass	
Benzo(k)fluoranthene	M22-Ma23540	NCP	%	103		70-130	Pass	
Chrysene	M22-Ma23540	NCP	%	73		70-130	Pass	
Dibenz(a,h)anthracene	M22-Ma23540	NCP	%	103		70-130	Pass	
Fluoranthene	M22-Ma23540	NCP	%	93		70-130	Pass	
Fluorene	M22-Ma23540	NCP	%	104		70-130	Pass	
Indeno(1,2,3-cd)pyrene	M22-Ma23540	NCP	%	106		70-130	Pass	
Naphthalene	M22-Ma23540	NCP	%	71		70-130	Pass	
Phenanthrene	M22-Ma23540	NCP	%	96		70-130	Pass	
Pyrene	M22-Ma20158	NCP	%	97		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M22-Ma19485	NCP	%	108		70-130	Pass	
4,4'-DDD	M22-Ma11701	NCP	%	114		70-130	Pass	
4,4'-DDE	M22-Ma19485	NCP	%	113		70-130	Pass	
4,4'-DDT	M22-Ma11701	NCP	%	77		70-130	Pass	
a-HCH	M22-Ma19485	NCP	%	101		70-130	Pass	
Aldrin	M22-Ma19485	NCP	%	105		70-130	Pass	
b-HCH	M22-Ma19485	NCP	%	96		70-130	Pass	
d-HCH	M22-Ma19485	NCP	%	93		70-130	Pass	
Dieldrin	M22-Ma19485	NCP	%	114		70-130	Pass	
Endosulfan I	M22-Ma19485	NCP	%	103		70-130	Pass	
Endosulfan II	M22-Ma19485	NCP	%	111		70-130	Pass	
Endosulfan sulphate	M22-Ma19485	NCP	%	91		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endrin	M22-Ma19485	NCP	%	121		70-130	Pass	
Endrin aldehyde	M22-Ma19485	NCP	%	81		70-130	Pass	
Endrin ketone	M22-Ma19485	NCP	%	101		70-130	Pass	
g-HCH (Lindane)	M22-Ma19485	NCP	%	98		70-130	Pass	
Heptachlor	M22-Ma19485	NCP	%	116		70-130	Pass	
Heptachlor epoxide	M22-Ma19485	NCP	%	106		70-130	Pass	
Hexachlorobenzene	M22-Ma19485	NCP	%	103		70-130	Pass	
Methoxychlor	M22-Ma19485	NCP	%	75		70-130	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	M22-Ma23540	NCP	%	74		30-130	Pass	
2,4-Dichlorophenol	M22-Ma23540	NCP	%	73		30-130	Pass	
2,4,5-Trichlorophenol	M22-Ma23540	NCP	%	54		30-130	Pass	
2,4,6-Trichlorophenol	M22-Ma23540	NCP	%	63		30-130	Pass	
2,6-Dichlorophenol	M22-Ma23540	NCP	%	66		30-130	Pass	
4-Chloro-3-methylphenol	M22-Ma20158	NCP	%	53		30-130	Pass	
Pentachlorophenol	M22-Ma20158	NCP	%	51		30-130	Pass	
Tetrachlorophenols - Total	M22-Ma23540	NCP	%	58		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	M22-Ma23540	NCP	%	42		30-130	Pass	
2-Methyl-4,6-dinitrophenol	M22-Ma23540	NCP	%	35		30-130	Pass	
2-Nitrophenol	M22-Ma23540	NCP	%	81		30-130	Pass	
2,4-Dimethylphenol	M22-Ma23540	NCP	%	86		30-130	Pass	
2,4-Dinitrophenol	M22-Ma23540	NCP	%	52		30-130	Pass	
2-Methylphenol (o-Cresol)	M22-Ma23540	NCP	%	81		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M22-Ma23540	NCP	%	43		30-130	Pass	
4-Nitrophenol	M22-Ma23540	NCP	%	56		30-130	Pass	
Dinoseb	M22-Ma23540	NCP	%	56		30-130	Pass	
Phenol	M22-Ma20158	NCP	%	73		30-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-Ma28323	CP	%	104		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-Ma28324	CP	%	119		70-130	Pass	
Naphthalene	M22-Ma28324	CP	%	90		70-130	Pass	
TRH C6-C10	M22-Ma28324	CP	%	118		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1,1-Dichloroethene	M22-Ma28324	CP	%	97		70-130	Pass	
1,1,1-Trichloroethane	M22-Ma28324	CP	%	115		70-130	Pass	
1,2-Dichlorobenzene	M22-Ma28324	CP	%	116		70-130	Pass	
1,2-Dichloroethane	M22-Ma28324	CP	%	87		70-130	Pass	
Benzene	M22-Ma28324	CP	%	122		70-130	Pass	
Ethylbenzene	M22-Ma28324	CP	%	123		70-130	Pass	
m&p-Xylenes	M22-Ma28324	CP	%	126		70-130	Pass	
o-Xylene	M22-Ma28324	CP	%	78		70-130	Pass	
Toluene	M22-Ma28324	CP	%	125		70-130	Pass	
Trichloroethene	M22-Ma28324	CP	%	116		70-130	Pass	
Xylenes - Total*	M22-Ma28324	CP	%	110		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	M22-Ma28324	CP	%	110		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1260	M22-Ma28324	CP	%	105		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M22-Ma28324	CP	%	90		75-125	Pass	
Cadmium	M22-Ma28324	CP	%	98		75-125	Pass	
Chromium	M22-Ma28324	CP	%	91		75-125	Pass	
Copper	M22-Ma28324	CP	%	91		75-125	Pass	
Lead	M22-Ma28324	CP	%	100		75-125	Pass	
Mercury	M22-Ma28324	CP	%	91		75-125	Pass	
Molybdenum	M22-Ma28324	CP	%	106		75-125	Pass	
Nickel	M22-Ma28324	CP	%	88		75-125	Pass	
Selenium	M22-Ma28324	CP	%	87		75-125	Pass	
Silver	M22-Ma28324	CP	%	99		75-125	Pass	
Tin	M22-Ma28324	CP	%	105		75-125	Pass	
Zinc	M22-Ma28324	CP	%	73		75-125	Fail	Q08
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-Ma28325	CP	%	104		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-Ma28331	CP	%	120		70-130	Pass	
Spike - % Recovery								
				Result 1				
Fluoride (Total)	M22-Ma28332	CP	%	118		70-130	Pass	
Spike - % Recovery								
				Result 1				
Perfluoroalkyl carboxylic acids (PFCAs)								
Perfluorobutanoic acid (PFBA)	M22-Ma28333	CP	%	101		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M22-Ma28333	CP	%	103		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M22-Ma28333	CP	%	102		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M22-Ma28333	CP	%	110		50-150	Pass	
Perfluorooctanoic acid (PFOA)	M22-Ma28333	CP	%	96		50-150	Pass	
Perfluorononanoic acid (PFNA)	M22-Ma28333	CP	%	107		50-150	Pass	
Perfluorodecanoic acid (PFDA)	M22-Ma28333	CP	%	116		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28333	CP	%	128		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M22-Ma28333	CP	%	111		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma28333	CP	%	138		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28333	CP	%	114		50-150	Pass	
Spike - % Recovery								
				Result 1				
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	M22-Ma28333	CP	%	124		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28333	CP	%	115		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28333	CP	%	98		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28333	CP	%	118		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28333	CP	%	110		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28333	CP	%	113		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28333	CP	%	127		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28333	CP	%	105		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M22-Ma28333	CP	%	146		50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28333	CP	%	131		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28333	CP	%	110		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28333	CP	%	122		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28333	CP	%	62		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28333	CP	%	117		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28333	CP	%	133		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28333	CP	%	99		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28333	CP	%	112		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28333	CP	%	78		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28333	CP	%	106		50-150	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	M22-Ma28334	CP	%	104		70-130	Pass	
Naphthalene	M22-Ma28334	CP	%	85		70-130	Pass	
TRH C6-C10	M22-Ma28334	CP	%	98		70-130	Pass	
Spike - % Recovery								
Volatile Organics				Result 1				
1.1-Dichloroethene	M22-Ma28334	CP	%	71		70-130	Pass	
1.1.1-Trichloroethane	M22-Ma28334	CP	%	81		70-130	Pass	
1.2-Dichloroethane	M22-Ma28334	CP	%	81		70-130	Pass	
Benzene	M22-Ma28334	CP	%	83		70-130	Pass	
Ethylbenzene	M22-Ma28334	CP	%	95		70-130	Pass	
m&p-Xylenes	M22-Ma28334	CP	%	97		70-130	Pass	
o-Xylene	M22-Ma28334	CP	%	101		70-130	Pass	
Toluene	M22-Ma28334	CP	%	90		70-130	Pass	
Trichloroethene	M22-Ma28334	CP	%	78		70-130	Pass	
Xylenes - Total*	M22-Ma28334	CP	%	99		70-130	Pass	
Spike - % Recovery								
				Result 1				
Chromium (hexavalent)	M22-Ma28334	CP	%	74		70-130	Pass	
Cyanide (total)	M22-Ma28334	CP	%	102		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	M22-Ma28334	CP	%	89		75-125	Pass	
Cadmium	M22-Ma28334	CP	%	89		75-125	Pass	
Copper	M22-Ma28334	CP	%	106		75-125	Pass	
Lead	M22-Ma28334	CP	%	103		75-125	Pass	
Mercury	M22-Ma28334	CP	%	96		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Molybdenum	M22-Ma28334	CP	%	104			75-125	Pass	
Nickel	M22-Ma28334	CP	%	127			75-125	Fail	Q08
Selenium	M22-Ma28334	CP	%	84			75-125	Pass	
Silver	M22-Ma28334	CP	%	91			75-125	Pass	
Tin	M22-Ma28334	CP	%	108			75-125	Pass	
Zinc	M22-Ma28334	CP	%	121			75-125	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-Ma28323	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M22-Ma28323	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M22-Ma28323	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M22-Ma28323	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	M22-Ma28323	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M22-Ma28323	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M22-Ma28323	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M22-Ma28323	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Chloroethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ma28323	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ma28323	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Endosulfan sulphate	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-Ma28323	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	M22-Ma28323	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	M22-Ma28323	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-Ma28323	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-Ma28323	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-Ma28323	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-Ma28323	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-Ma28323	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-Ma28323	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-Ma28323	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-Ma28323	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-Ma28323	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-Ma28323	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-Ma28323	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-Ma28323	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-Ma28323	CP	%	35	33	6.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-Ma28323	CP	mg/kg	23	18	23	30%	Pass
Cadmium	M22-Ma28323	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ma28323	CP	mg/kg	130	120	9.0	30%	Pass
Copper	M22-Ma28323	CP	mg/kg	64	60	7.0	30%	Pass
Lead	M22-Ma28323	CP	mg/kg	5.5	5.1	7.0	30%	Pass
Mercury	M22-Ma28323	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ma28323	CP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Nickel	M22-Ma28323	CP	mg/kg	170	160	10	30%	Pass
Selenium	M22-Ma28323	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M22-Ma28323	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ma28323	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ma28323	CP	mg/kg	100	97	5.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	M22-Ma28324	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-Ma28324	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-Ma28324	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	M22-Ma28324	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-Ma28324	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-Ma28324	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-Ma28324	CP	mg/kg	21	21	1.0	30%	Pass
Cadmium	M22-Ma28324	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ma28324	CP	mg/kg	110	120	4.0	30%	Pass
Copper	M22-Ma28324	CP	mg/kg	65	67	2.0	30%	Pass
Lead	M22-Ma28324	CP	mg/kg	< 5	< 5	<1	30%	Pass
Mercury	M22-Ma28324	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ma28324	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-Ma28324	CP	mg/kg	180	190	2.0	30%	Pass
Selenium	M22-Ma28324	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M22-Ma28324	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ma28324	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ma28324	CP	mg/kg	130	130	1.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	M22-Ma28327	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	M22-Ma28327	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M22-Ma28327	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M22-Ma28327	CP	mg/kg	< 50	< 50	<1	30%	Pass
Naphthalene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M22-Ma28327	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	M22-Ma28327	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M22-Ma28327	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M22-Ma28327	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Hexachlorobutadiene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2.3-Trichloropropane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ma28327	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ma28327	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Dibenz(a,h)anthracene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	M22-Ma28327	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M22-Ma28327	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dichlorophenol	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-Trichlorophenol	M22-Ma28327	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.4.6-Trichlorophenol	M22-Ma28327	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.6-Dichlorophenol	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M22-Ma28327	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M22-Ma28327	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M22-Ma28327	CP	mg/kg	< 10	< 10	<1	30%	Pass

Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	M22-Ma28327	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	M22-Ma28327	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Nitrophenol	M22-Ma28327	CP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	M22-Ma28327	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M22-Ma28327	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M22-Ma28327	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M22-Ma28327	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M22-Ma28327	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M22-Ma28327	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Cyanide (total)	M22-Ma28327	CP	mg/kg	< 5	< 5	<1	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	M22-Ma28327	CP	pH Units	8.5	8.5	pass	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	M22-Ma28329	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M22-Ma28329	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Hexachlorobutadiene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1,1-Dichloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,4-Trichlorobenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1-Dichloroethene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1-Trichloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,1,2-Tetrachloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2-Trichloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,1,2,2-Tetrachloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dibromoethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichlorobenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2-Dichloropropane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,3-Trichloropropane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,2,4-Trimethylbenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichlorobenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3-Dichloropropane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,3,5-Trimethylbenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1,4-Dichlorobenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-Ma28329	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Carbon Tetrachloride	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ma28329	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ma28329	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ma28329	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ma28329	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ma28329	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ma28329	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ma28329	CP	mg/kg	1.2	1.3	4.0	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28332	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28332	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28332	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28332	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	M22-Ma28333	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M22-Ma28333	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Hexachlorobutadiene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trichlorobenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2.3-Trichloropropane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzene	M22-Ma28333	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Bromobenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Ethylbenzene	M22-Ma28333	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Iodomethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
m&p-Xylenes	M22-Ma28333	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methylene Chloride	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
o-Xylene	M22-Ma28333	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Styrene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Toluene	M22-Ma28333	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
trans-1.2-Dichloroethene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	M22-Ma28333	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Xylenes - Total*	M22-Ma28333	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-Ma28333	CP	%	33	32	2.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Cadmium	M22-Ma28333	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ma28333	CP	mg/kg	140	150	10	30%	Pass
Copper	M22-Ma28333	CP	mg/kg	78	60	27	30%	Pass
Lead	M22-Ma28333	CP	mg/kg	6.8	6.0	13	30%	Pass
Mercury	M22-Ma28333	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ma28333	CP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Nickel	M22-Ma28333	CP	mg/kg	240	190	24	30%	Pass
Selenium	M22-Ma28333	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M22-Ma28333	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ma28333	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ma28333	CP	mg/kg	160	120	23	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M22-Ma28334	CP	mg/kg	28	28	1.0	30%	Pass
Cadmium	M22-Ma28334	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M22-Ma28334	CP	mg/kg	130	140	5.0	30%	Pass
Copper	M22-Ma28334	CP	mg/kg	81	80	1.0	30%	Pass
Lead	M22-Ma28334	CP	mg/kg	6.1	6.0	1.0	30%	Pass
Mercury	M22-Ma28334	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M22-Ma28334	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M22-Ma28334	CP	mg/kg	230	220	1.0	30%	Pass
Selenium	M22-Ma28334	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M22-Ma28334	CP	mg/kg	< 2	< 2	<1	30%	Pass
Tin	M22-Ma28334	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M22-Ma28334	CP	mg/kg	160	160	1.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ma28337	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M22-Ma28338	CP	mg/kg	< 1	1.0	14	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28342	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28342	CP	ug/kg	< 10	< 10	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28342	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28342	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M22-Ma28343	CP	%	32	31	2.0	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28343	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28343	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28343	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28343	CP	ug/kg	< 5	< 5	<1	30%	Pass

Comments

Eurofins | Environment Testing accreditation number 1261, site 18217 is currently in progress of a controlled transition to a new custom built location at 179 Magowar Road, Girraween, NSW 2145. All results on this report denoted as being performed by Eurofins | Environment Testing Unit F3, Building F, 16 Mars road, Lane Cove West, NSW 2066, corporate site 18217, will have been performed on either Lane Cove or new Girraween site

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:

Catherine Wilson	Analytical Services Manager
Vivian Wang	Senior Analyst-Volatile (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Emily Rosenberg	Senior Analyst-Metal (VIC)
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](#).

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



NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition
Arrangement for the mutual recognition of the
equivalence of testing, medical testing, calibration,
inspection, proficiency testing scheme providers and
reference materials producers reports and certificates.

Attention: **Agon Lab Reports (Spoil Project)**

Report **871152-L**
Project name **20220315043631-Eurofin-21 solid_00**
Project ID **JC0927**
Received Date **Mar 15, 2022**

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_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-Ma28347	M22-Ma28348	M22-Ma28349	M22-Ma28350
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.2	5.2	5.3	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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	115	113	109	110
13C5-PFPeA (surr.)	1	%	99	104	103	104
13C5-PFHxA (surr.)	1	%	102	102	98	104
13C4-PFHpA (surr.)	1	%	113	112	108	115
13C8-PFOA (surr.)	1	%	60	127	72	52
13C5-PFNA (surr.)	1	%	107	91	94	112
13C6-PFDA (surr.)	1	%	95	68	76	104
13C2-PFUnDA (surr.)	1	%	65	49	54	85
13C2-PFDoDA (surr.)	1	%	48	32	41	68
13C2-PFTeDA (surr.)	1	%	43	23	26	46
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_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_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-Ma28347	M22-Ma28348	M22-Ma28349	M22-Ma28350
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 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	%	120	110	103	115
D3-N-MeFOSA (surr.)	1	%	105	89	104	114
D5-N-EtFOSA (surr.)	1	%	103	83	102	108
D7-N-MeFOSE (surr.)	1	%	114	108	107	111
D9-N-EtFOSE (surr.)	1	%	115	103	105	114
D5-N-EtFOSAA (surr.)	1	%	43	36	62	59
D3-N-MeFOSAA (surr.)	1	%	59	50	65	59
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	94	96	94	93
18O2-PFHxS (surr.)	1	%	89	93	90	100
13C8-PFOS (surr.)	1	%	85	78	76	103
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	97	94	87	91
13C2-6:2 FTSA (surr.)	1	%	149	97	115	138
13C2-8:2 FTSA (surr.)	1	%	115	85	96	104
13C2-10:2 FTSA (surr.)	1	%	56	44	54	84
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_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-Ma28351	M22-Ma28352	M22-Ma28353	M22-Ma28354
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.2	5.3	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	%	112	102	113	115
13C5-PFPeA (surr.)	1	%	103	92	100	110
13C5-PFHxA (surr.)	1	%	102	92	104	108
13C4-PFHpA (surr.)	1	%	113	107	117	118
13C8-PFOA (surr.)	1	%	53	52	59	70
13C5-PFNA (surr.)	1	%	113	112	116	114
13C6-PFDA (surr.)	1	%	98	103	104	95
13C2-PFUnDA (surr.)	1	%	75	87	88	63
13C2-PFDoDA (surr.)	1	%	55	74	67	43
13C2-PFTeDA (surr.)	1	%	45	58	38	24
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	104	107	116	114
D3-N-MeFOSA (surr.)	1	%	92	93	96	80
D5-N-EtFOSA (surr.)	1	%	91	95	92	71
D7-N-MeFOSE (surr.)	1	%	105	106	110	112
D9-N-EtFOSE (surr.)	1	%	101	106	108	107
D5-N-EtFOSAA (surr.)	1	%	60	68	53	44
D3-N-MeFOSAA (surr.)	1	%	70	82	55	50

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_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-Ma28351	M22-Ma28352	M22-Ma28353	M22-Ma28354
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	93	85	93	99
18O2-PFHxS (surr.)	1	%	97	84	98	97
13C8-PFOS (surr.)	1	%	98	100	104	96
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	91	91	96	99
13C2-6:2 FTSA (surr.)	1	%	136	139	137	126
13C2-8:2 FTSA (surr.)	1	%	98	112	107	104
13C2-10:2 FTSA (surr.)	1	%	71	87	86	55
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 313_08_54_SS TriPLICATE_EU F	SX_OB_20220 313_09_00_SS Primary_EUF	SX_OB_20220 313_11_47_SS Primary_EUF	SX_OB_20220 313_15_44_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-Ma28355	M22-Ma28356	M22-Ma28357	M22-Ma28358
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.1	5.2	5.2	5.2

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_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-Ma28355	M22-Ma28356	M22-Ma28357	M22-Ma28358
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	111	111	109	111
13C5-PFPeA (surr.)	1	%	102	96	101	106
13C5-PFHxA (surr.)	1	%	102	99	103	101
13C4-PFHpA (surr.)	1	%	120	115	111	104
13C8-PFOA (surr.)	1	%	52	56	79	60
13C5-PFNA (surr.)	1	%	116	113	105	95
13C6-PFDA (surr.)	1	%	103	107	87	88
13C2-PFUnDA (surr.)	1	%	77	89	78	76
13C2-PFDoDA (surr.)	1	%	52	79	63	55
13C2-PFTeDA (surr.)	1	%	33	68	45	41
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	111	114	108	96
D3-N-MeFOSA (surr.)	1	%	88	96	113	76
D5-N-EtFOSA (surr.)	1	%	81	96	114	72
D7-N-MeFOSE (surr.)	1	%	110	120	115	96
D9-N-EtFOSE (surr.)	1	%	107	112	110	88
D5-N-EtFOSAA (surr.)	1	%	87	69	54	55
D3-N-MeFOSAA (surr.)	1	%	87	67	65	56
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_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-Ma28355	M22-Ma28356	M22-Ma28357	M22-Ma28358
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
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	%	91	93	97	95
18O2-PFHxS (surr.)	1	%	94	98	101	91
13C8-PFOS (surr.)	1	%	97	106	93	86
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 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	92	90	87
13C2-6:2 FTSA (surr.)	1	%	144	135	115	108
13C2-8:2 FTSA (surr.)	1	%	115	120	96	92
13C2-10:2 FTSA (surr.)	1	%	63	88	83	62
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 313_15_48_SS _Duplicate_EU F	SX_OB_20220 313_20_01_SS _Primary_EUF	SX_OB_20220 314_00_11_SS _Primary_EUF	SX_OB_20220 314_03_57_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-Ma28359	M22-Ma28360	M22-Ma28361	M22-Ma28362
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.2	5.2	5.2	5.4
Perfluoroalkyl carboxylic acids (PFCA)						
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

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_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-Ma28359	M22-Ma28360	M22-Ma28361	M22-Ma28362
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	107	111	113
13C5-PFPeA (surr.)	1	%	106	102	102	102
13C5-PFHxA (surr.)	1	%	106	99	106	102
13C4-PFHpA (surr.)	1	%	120	105	114	116
13C8-PFOA (surr.)	1	%	69	61	63	65
13C5-PFNA (surr.)	1	%	118	91	107	108
13C6-PFDA (surr.)	1	%	107	77	93	95
13C2-PFUnDA (surr.)	1	%	94	59	78	73
13C2-PFDoDA (surr.)	1	%	73	49	55	51
13C2-PFTeDA (surr.)	1	%	40	35	34	34
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	95	114	112
D3-N-MeFOSA (surr.)	1	%	87	105	112	95
D5-N-EtFOSA (surr.)	1	%	84	103	107	93
D7-N-MeFOSE (surr.)	1	%	110	103	116	109
D9-N-EtFOSE (surr.)	1	%	106	104	113	110
D5-N-EtFOSAA (surr.)	1	%	65	55	53	51
D3-N-MeFOSAA (surr.)	1	%	75	53	60	52
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	99	92	95	94
18O2-PFHxS (surr.)	1	%	100	91	99	102
13C8-PFOS (surr.)	1	%	104	77	101	94

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_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-Ma28359	M22-Ma28360	M22-Ma28361	M22-Ma28362
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	93	85	94	99
13C2-6:2 FTSA (surr.)	1	%	136	98	131	138
13C2-8:2 FTSA (surr.)	1	%	107	82	105	112
13C2-10:2 FTSA (surr.)	1	%	89	58	75	60
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 314_08_01_SS TriPLICATE_EU F	SX_OB_20220 314_08_13_SS Primary_EUF	SX_OB_20220 314_11_54_SS Primary_EUF	SX_OB_20220 314_15_42_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-Ma28363	M22-Ma28364	M22-Ma28365	M22-Ma28366
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.2	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	%	108	113	114	106
13C5-PFPeA (surr.)	1	%	95	102	98	93
13C5-PFHxA (surr.)	1	%	103	105	104	97

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_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-Ma28363	M22-Ma28364	M22-Ma28365	M22-Ma28366
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	114	118	122	103
13C8-PFOA (surr.)	1	%	66	72	59	68
13C5-PFNA (surr.)	1	%	111	112	112	85
13C6-PFDA (surr.)	1	%	97	88	97	64
13C2-PFUnDA (surr.)	1	%	79	64	76	51
13C2-PFDoDA (surr.)	1	%	58	43	57	36
13C2-PFTeDA (surr.)	1	%	37	28	33	22
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	%	108	110	112	94
D3-N-MeFOSA (surr.)	1	%	97	83	87	104
D5-N-EtFOSA (surr.)	1	%	93	75	82	104
D7-N-MeFOSE (surr.)	1	%	110	110	108	101
D9-N-EtFOSE (surr.)	1	%	105	103	107	98
D5-N-EtFOSAA (surr.)	1	%	57	62	72	57
D3-N-MeFOSAA (surr.)	1	%	71	78	85	52
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	93	93	100	90
18O2-PFHxS (surr.)	1	%	95	101	100	78
13C8-PFOS (surr.)	1	%	100	89	94	64
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	91	96	97	88
13C2-6:2 FTSA (surr.)	1	%	136	120	128	90

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_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-Ma28363	M22-Ma28364	M22-Ma28365	M22-Ma28366
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-8:2 FTSA (surr.)	1	%	111	104	102	70
13C2-10:2 FTSA (surr.)	1	%	70	57	83	52
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 314_15_43_SS _Duplicate_EU F	SX_OB_20220 314_20_00_SS _Primary_EUF	SX_OB_20220 315_00_04_SS _Primary_EUF	SX_OB_20220 315_03_53_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-Ma28367	M22-Ma28368	M22-Ma28369	M22-Ma28370
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	5.2	5.2	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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	108	114	111	113
13C5-PFPeA (surr.)	1	%	104	109	100	101
13C5-PFHxA (surr.)	1	%	100	104	105	105
13C4-PFHpA (surr.)	1	%	111	112	114	121
13C8-PFOA (surr.)	1	%	69	67	64	84
13C5-PFNA (surr.)	1	%	101	108	113	118
13C6-PFDA (surr.)	1	%	89	87	101	103
13C2-PFUnDA (surr.)	1	%	73	73	87	90
13C2-PFDoDA (surr.)	1	%	59	58	70	68
13C2-PFTeDA (surr.)	1	%	41	37	51	49

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_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-Ma28367	M22-Ma28368	M22-Ma28369	M22-Ma28370
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	100	108	103	113
D3-N-MeFOSA (surr.)	1	%	79	91	78	94
D5-N-EtFOSA (surr.)	1	%	72	90	73	91
D7-N-MeFOSE (surr.)	1	%	98	107	98	114
D9-N-EtFOSE (surr.)	1	%	93	107	97	108
D5-N-EtFOSAA (surr.)	1	%	49	59	66	69
D3-N-MeFOSAA (surr.)	1	%	53	63	65	89
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	95	99	99	97
18O2-PFHxS (surr.)	1	%	98	100	98	97
13C8-PFOS (surr.)	1	%	96	89	96	110
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	91	94	95	97
13C2-6:2 FTSA (surr.)	1	%	113	117	129	122
13C2-8:2 FTSA (surr.)	1	%	88	94	105	103
13C2-10:2 FTSA (surr.)	1	%	74	66	86	83
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _Triplicate_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_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-Ma28371	M22-Ma28372	M22-Ma28373	M22-Ma28374
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	9.1	9.1	9.2	9.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (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	%	107	104	98	109
13C5-PFPeA (surr.)	1	%	89	98	87	103
13C5-PFHxA (surr.)	1	%	92	105	92	95
13C4-PFHpA (surr.)	1	%	116	113	111	120
13C8-PFOA (surr.)	1	%	56	138	74	53
13C5-PFNA (surr.)	1	%	126	114	113	130
13C6-PFDA (surr.)	1	%	124	111	106	124
13C2-PFUnDA (surr.)	1	%	126	122	114	128
13C2-PFDoDA (surr.)	1	%	128	125	103	129
13C2-PFTeDA (surr.)	1	%	124	152	103	107
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	%	116	108	104	117
D3-N-MeFOSA (surr.)	1	%	77	82	66	80
D5-N-EtFOSA (surr.)	1	%	69	71	52	69
D7-N-MeFOSE (surr.)	1	%	100	109	95	108
D9-N-EtFOSE (surr.)	1	%	97	105	82	104
D5-N-EtFOSAA (surr.)	1	%	120	124	131	142
D3-N-MeFOSAA (surr.)	1	%	122	105	110	120

Client Sample ID			SX_OB_20220 312_08_00_SS _Primary_EUF	SX_OB_20220 312_08_13_SS _TriPLICATE_EU F	SX_OB_20220 312_12_10_SS _Primary_EUF	SX_OB_20220 312_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-Ma28371	M22-Ma28372	M22-Ma28373	M22-Ma28374
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 12, 2022	Mar 12, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	99	104	95	96
18O2-PFHxS (surr.)	1	%	107	107	103	110
13C8-PFOS (surr.)	1	%	127	114	117	119
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	86	85	80	87
13C2-6:2 FTSA (surr.)	1	%	173	105	121	149
13C2-8:2 FTSA (surr.)	1	%	153	122	121	148
13C2-10:2 FTSA (surr.)	1	%	143	140	136	142
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 312_16_02_SS _Duplicate_EU F	SX_OB_20220 312_20_04_SS _Primary_EUF	SX_OB_20220 313_00_03_SS _Primary_EUF	SX_OB_20220 313_04_06_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-Ma28375	M22-Ma28376	M22-Ma28377	M22-Ma28378
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	8.9	9.3	9.0	9.0

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_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-Ma28375	M22-Ma28376	M22-Ma28377	M22-Ma28378
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 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	%	106	102	105	104
13C5-PFPeA (surr.)	1	%	91	90	95	91
13C5-PFHxA (surr.)	1	%	94	87	96	98
13C4-PFHpA (surr.)	1	%	117	111	113	119
13C8-PFOA (surr.)	1	%	59	41	58	76
13C5-PFNA (surr.)	1	%	124	122	130	126
13C6-PFDA (surr.)	1	%	120	121	124	121
13C2-PFUnDA (surr.)	1	%	111	107	129	118
13C2-PFDoDA (surr.)	1	%	108	107	135	114
13C2-PFTeDA (surr.)	1	%	97	120	127	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	110	105	120	114
D3-N-MeFOSA (surr.)	1	%	62	64	79	63
D5-N-EtFOSA (surr.)	1	%	50	55	69	56
D7-N-MeFOSE (surr.)	1	%	96	91	102	103
D9-N-EtFOSE (surr.)	1	%	89	84	97	100
D5-N-EtFOSAA (surr.)	1	%	131	112	154	126
D3-N-MeFOSAA (surr.)	1	%	134	105	123	119
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 312_16_02_SS Duplicate_EU F	SX_OB_20220 312_20_04_SS Primary_EUF	SX_OB_20220 313_00_03_SS Primary_EUF	SX_OB_20220 313_04_06_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-Ma28375	M22-Ma28376	M22-Ma28377	M22-Ma28378
Date Sampled			Mar 12, 2022	Mar 12, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
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	92	99	101
18O2-PFHxS (surr.)	1	%	110	104	110	109
13C8-PFOS (surr.)	1	%	118	114	120	121
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	84	84	87	88
13C2-6:2 FTSA (surr.)	1	%	156	188	141	126
13C2-8:2 FTSA (surr.)	1	%	144	181	141	131
13C2-10:2 FTSA (surr.)	1	%	125	130	149	137
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 313_08_54_SS TriPLICATE_EU F	SX_OB_20220 313_09_00_SS Primary_EUF	SX_OB_20220 313_11_47_SS Primary_EUF	SX_OB_20220 313_15_44_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-Ma28379	M22-Ma28380	M22-Ma28381	M22-Ma28382
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	8.9	9.0	9.1	9.3
Perfluoroalkyl carboxylic acids (PFCA)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_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-Ma28379	M22-Ma28380	M22-Ma28381	M22-Ma28382
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 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	%	103	112	81	92
13C5-PFPeA (surr.)	1	%	88	98	73	82
13C5-PFHxA (surr.)	1	%	89	103	81	89
13C4-PFHpA (surr.)	1	%	108	120	93	100
13C8-PFOA (surr.)	1	%	52	62	74	69
13C5-PFNA (surr.)	1	%	119	128	102	98
13C6-PFDA (surr.)	1	%	119	135	94	94
13C2-PFUnDA (surr.)	1	%	118	131	120	101
13C2-PFDoDA (surr.)	1	%	120	128	142	103
13C2-PFTeDA (surr.)	1	%	102	100	116	125
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	%	107	116	112	93
D3-N-MeFOSA (surr.)	1	%	70	65	108	75
D5-N-EtFOSA (surr.)	1	%	61	55	100	66
D7-N-MeFOSE (surr.)	1	%	97	97	123	86
D9-N-EtFOSE (surr.)	1	%	91	95	118	85
D5-N-EtFOSAA (surr.)	1	%	133	145	128	116
D3-N-MeFOSAA (surr.)	1	%	116	139	103	107
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	%	95	98	87	91
18O2-PFHxS (surr.)	1	%	105	107	100	93
13C8-PFOS (surr.)	1	%	117	121	107	102

Client Sample ID			SX_OB_20220 313_08_54_SS _TriPLICATE_EU F	SX_OB_20220 313_09_00_SS _Primary_EUF	SX_OB_20220 313_11_47_SS _Primary_EUF	SX_OB_20220 313_15_44_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-Ma28379	M22-Ma28380	M22-Ma28381	M22-Ma28382
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 13, 2022	Mar 13, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	81	91	66	78
13C2-6:2 FTSA (surr.)	1	%	143	163	85	107
13C2-8:2 FTSA (surr.)	1	%	133	155	97	108
13C2-10:2 FTSA (surr.)	1	%	130	170	156	121
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 313_15_48_SS _Duplicate_EU F	SX_OB_20220 313_20_01_SS _Primary_EUF	SX_OB_20220 314_00_11_SS _Primary_EUF	SX_OB_20220 314_03_57_SS _Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ma28383	M22-Ma28384	M22-Ma28385	M22-Ma28386
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	9.1	9.1	9.1	9.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	91	94	102	108
13C5-PFPeA (surr.)	1	%	84	89	90	95

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ma28383	M22-Ma28384	M22-Ma28385	M22-Ma28386
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFHxA (surr.)	1	%	88	95	92	99
13C4-PFHpA (surr.)	1	%	101	108	111	120
13C8-PFOA (surr.)	1	%	67	78	67	76
13C5-PFNA (surr.)	1	%	118	111	118	129
13C6-PFDA (surr.)	1	%	110	113	109	129
13C2-PFUnDA (surr.)	1	%	126	112	110	154
13C2-PFDoDA (surr.)	1	%	131	110	114	159
13C2-PFTeDA (surr.)	1	%	143	91	96	131
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	%	109	106	105	120
D3-N-MeFOSA (surr.)	1	%	78	82	76	101
D5-N-EtFOSA (surr.)	1	%	69	71	68	81
D7-N-MeFOSE (surr.)	1	%	109	102	102	112
D9-N-EtFOSE (surr.)	1	%	103	95	97	109
D5-N-EtFOSAA (surr.)	1	%	137	154	145	182
D3-N-MeFOSAA (surr.)	1	%	112	135	119	157
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	%	94	98	94	100
18O2-PFHxS (surr.)	1	%	103	104	102	113
13C8-PFOS (surr.)	1	%	117	117	119	131
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			SX_OB_20220 313_15_48_SS Duplicate_EU F	SX_OB_20220 313_20_01_SS Primary_EUF	SX_OB_20220 314_00_11_SS Primary_EUF	SX_OB_20220 314_03_57_SS Primary_EUF
Sample Matrix			AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water	AUS Leachate - Reagent Water
Eurofins Sample No.			M22-Ma28383	M22-Ma28384	M22-Ma28385	M22-Ma28386
Date Sampled			Mar 13, 2022	Mar 13, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-4:2 FTSA (surr.)	1	%	74	79	84	91
13C2-6:2 FTSA (surr.)	1	%	106	104	121	149
13C2-8:2 FTSA (surr.)	1	%	115	108	115	135
13C2-10:2 FTSA (surr.)	1	%	144	122	131	179
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 314_08_01_SS TriPLICATE_EU F	SX_OB_20220 314_08_13_SS Primary_EUF	SX_OB_20220 314_11_54_SS Primary_EUF	SX_OB_20220 314_15_42_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-Ma28387	M22-Ma28388	M22-Ma28389	M22-Ma28390
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	9.5	9.1	9.1	9.1
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 (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	104	101	104	97
13C5-PFPeA (surr.)	1	%	90	98	92	87
13C5-PFHxA (surr.)	1	%	97	96	96	93
13C4-PFHpA (surr.)	1	%	117	103	108	113
13C8-PFOA (surr.)	1	%	76	69	59	90
13C5-PFNA (surr.)	1	%	122	100	106	118
13C6-PFDA (surr.)	1	%	123	91	107	114
13C2-PFUnDA (surr.)	1	%	135	94	102	131

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_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-Ma28387	M22-Ma28388	M22-Ma28389	M22-Ma28390
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	125	90	94	122
13C2-PFTeDA (surr.)	1	%	152	83	78	104
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	%	118	90	101	107
D3-N-MeFOSA (surr.)	1	%	93	69	69	63
D5-N-EtFOSA (surr.)	1	%	81	60	60	52
D7-N-MeFOSE (surr.)	1	%	109	96	98	102
D9-N-EtFOSE (surr.)	1	%	109	85	88	91
D5-N-EtFOSAA (surr.)	1	%	128	96	91	120
D3-N-MeFOSAA (surr.)	1	%	112	86	91	115
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	101	99	98	101
18O2-PFHxS (surr.)	1	%	110	96	100	110
13C8-PFOS (surr.)	1	%	124	97	108	121
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	84	85	87	79
13C2-6:2 FTSA (surr.)	1	%	134	106	133	104
13C2-8:2 FTSA (surr.)	1	%	148	107	128	112
13C2-10:2 FTSA (surr.)	1	%	128	117	111	149

Client Sample ID			SX_OB_20220 314_08_01_SS _TriPLICATE_EU F	SX_OB_20220 314_08_13_SS _Primary_EUF	SX_OB_20220 314_11_54_SS _Primary_EUF	SX_OB_20220 314_15_42_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-Ma28387	M22-Ma28388	M22-Ma28389	M22-Ma28390
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 14, 2022	Mar 14, 2022
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			SX_OB_20220 314_15_43_SS _Duplicate_EU F	SX_OB_20220 314_20_00_SS _Primary_EUF	SX_OB_20220 315_00_04_SS _Primary_EUF	SX_OB_20220 315_03_53_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-Ma28391	M22-Ma28392	M22-Ma28393	M22-Ma28394
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 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	5.1	5.1	5.1	5.1
pH (off)	0.1	pH Units	9.1	9.1	9.2	9.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	72	101	89	104
13C5-PFPeA (surr.)	1	%	69	95	82	91
13C5-PFHxA (surr.)	1	%	77	97	87	101
13C4-PFHpA (surr.)	1	%	92	112	100	115
13C8-PFOA (surr.)	1	%	74	73	68	90
13C5-PFNA (surr.)	1	%	100	109	95	112
13C6-PFDA (surr.)	1	%	99	106	93	112
13C2-PFUnDA (surr.)	1	%	100	103	107	123
13C2-PFDoDA (surr.)	1	%	107	97	115	108
13C2-PFTeDA (surr.)	1	%	110	79	106	108

Client Sample ID			SX_OB_20220 314_15_43_SS Duplicate_EU F	SX_OB_20220 314_20_00_SS Primary_EUF	SX_OB_20220 315_00_04_SS Primary_EUF	SX_OB_20220 315_03_53_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-Ma28391	M22-Ma28392	M22-Ma28393	M22-Ma28394
Date Sampled			Mar 14, 2022	Mar 14, 2022	Mar 15, 2022	Mar 15, 2022
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	107	107	98	106
D3-N-MeFOSA (surr.)	1	%	73	68	89	68
D5-N-EtFOSA (surr.)	1	%	64	55	78	56
D7-N-MeFOSE (surr.)	1	%	102	99	103	93
D9-N-EtFOSE (surr.)	1	%	98	91	96	85
D5-N-EtFOSAA (surr.)	1	%	109	86	135	123
D3-N-MeFOSAA (surr.)	1	%	108	75	126	105
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	95	97	93	100
18O2-PFHxS (surr.)	1	%	103	102	96	108
13C8-PFOS (surr.)	1	%	110	114	105	108
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	66	82	74	89
13C2-6:2 FTSA (surr.)	1	%	86	124	93	123
13C2-8:2 FTSA (surr.)	1	%	93	116	100	118
13C2-10:2 FTSA (surr.)	1	%	122	119	137	145
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) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Mar 17, 2022	0 Days
pH (Leachate fluid) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Mar 17, 2022	0 Days
pH (off) - Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes	Melbourne	Mar 17, 2022	0 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 17, 2022	28 Days
PFASs Summations - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Melbourne	Mar 15, 2022	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220312_08_00_S_S_Primary_EU F	Mar 12, 2022	8:00AM	Soil	M22-Ma28323		X	X	X
2	SX_OB_20220312_08_13_S_S_Triplicate_EU F	Mar 12, 2022	8:11AM	Soil	M22-Ma28324		X	X	X
3	SX_OB_20220312_12_10_S_S_Primary_EU F	Mar 12, 2022		Soil	M22-Ma28325		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
4	SX_OB_20220312_16_01_S_S_Primary_EU_F	Mar 12, 2022	4:01PM	Soil	M22-Ma28326		X	X	X
5	SX_OB_20220312_16_02_S_S_Duplicate_EUF	Mar 12, 2022	4:02PM	Soil	M22-Ma28327		X	X	X
6	SX_OB_20220312_20_04_S_S_Primary_EU_F	Mar 12, 2022	8:04PM	Soil	M22-Ma28328		X	X	X
7	SX_OB_20220313_00_03_S	Mar 13, 2022	12:03PM	Soil	M22-Ma28329		X	X	X

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

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
8	SX_OB_20220 313_04_06_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28330		X	X	X
9	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	Soil	M22-Ma28331		X	X	X
10	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28332		X	X	X

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
11	SX_OB_20220313_11_47_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	Soil	M22-Ma28333		X	X	X
12	SX_OB_20220313_15_44_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	Soil	M22-Ma28334		X	X	X
13	SX_OB_20220313_15_48_S_S_Duplicate_EUF	Mar 13, 2022	4:06AM	Soil	M22-Ma28335		X	X	X
14	SX_OB_20220313_20_01_S	Mar 13, 2022	4:06AM	Soil	M22-Ma28336		X	X	X

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
15	SX_OB_20220 314_00_11_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28337		X	X	X
16	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28338		X	X	X
17	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	Soil	M22-Ma28339		X	X	X

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
18	SX_OB_20220 314_08_13_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28340		X	X	X
19	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28341		X	X	X
20	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28342		X	X	X
21	SX_OB_20220 314_15_43_S	Mar 14, 2022	4:06AM	Soil	M22-Ma28343		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF								
22	SX_OB_20220314_20_00_S_S_Primary_EUF	Mar 14, 2022	8:00PM	Soil	M22-Ma28344		X	X	X
23	SX_OB_20220315_00_04_S_S_Primary_EUF	Mar 15, 2022	12:04AM	Soil	M22-Ma28345		X	X	X
24	SX_OB_20220315_03_53_S_S_Primary_EUF	Mar 15, 2022	3:53AM	Soil	M22-Ma28346		X	X	X

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
25	SX_OB_20220 312_08_00_S S_Primary_EU F	Mar 12, 2022	8:00AM	AUS Leachate - pH 5.0	M22-Ma28347	X		X	
26	SX_OB_20220 312_08_13_S S_Triplicate_E UF	Mar 12, 2022	8:11AM	AUS Leachate - pH 5.0	M22-Ma28348	X		X	
27	SX_OB_20220 312_12_10_S S_Primary_EU F	Mar 12, 2022		AUS Leachate - pH 5.0	M22-Ma28349	X		X	
28	SX_OB_20220 312_16_01_S	Mar 12, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ma28350	X		X	

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		Fax:		Contact Name:	Agon Lab Reports (Spoil Project)
Project Name:	20220315043631-Eurofin-21 solid_00				
Project ID:	JC0927				

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
29	SX_OB_20220 312_16_02_S S_Duplicate_E UF	Mar 12, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ma28351	X		X	
30	SX_OB_20220 312_20_04_S S_Primary_EU F	Mar 12, 2022	8:04PM	AUS Leachate - pH 5.0	M22-Ma28352	X		X	
31	SX_OB_20220 313_00_03_S S_Primary_EU F	Mar 13, 2022	12:03PM	AUS Leachate - pH 5.0	M22-Ma28353	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
32	SX_OB_20220 313_04_06_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28354	X		X	
33	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28355	X		X	
34	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28356	X		X	
35	SX_OB_20220 313_11_47_S	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28357	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
36	SX_OB_20220 313_15_44_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28358	X		X	
37	SX_OB_20220 313_15_48_S S_Duplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28359	X		X	
38	SX_OB_20220 313_20_01_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28360	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
39	SX_OB_20220 314_00_11_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28361	X		X	
40	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28362	X		X	
41	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28363	X		X	
42	SX_OB_20220 314_08_13_S	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28364	X		X	

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Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
43	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28365	X		X	
44	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28366	X		X	
45	SX_OB_20220 314_15_43_S S_Duplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28367	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
46	SX_OB_20220314_20_00_S_S_Primary_EU_F	Mar 14, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Ma28368	X		X	
47	SX_OB_20220315_00_04_S_S_Primary_EU_F	Mar 15, 2022	12:04AM	AUS Leachate - pH 5.0	M22-Ma28369	X		X	
48	SX_OB_20220315_03_53_S_S_Primary_EU_F	Mar 15, 2022	3:53AM	AUS Leachate - pH 5.0	M22-Ma28370	X		X	
49	SX_OB_20220312_08_00_S	Mar 12, 2022	8:00AM	AUS Leachate - Reagent	M22-Ma28371	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
50	SX_OB_20220 312_08_13_S S_Triplicate_E UF	Mar 12, 2022	8:11AM	AUS Leachate - Reagent Water	M22-Ma28372	X		X	
51	SX_OB_20220 312_12_10_S S_Primary_EU F	Mar 12, 2022		AUS Leachate - Reagent Water	M22-Ma28373	X		X	
52	SX_OB_20220 312_16_01_S S_Primary_EU F	Mar 12, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ma28374	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
53	SX_OB_20220312_16_02_S_S_Duplicate_EUF	Mar 12, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Ma28375	X		X	
54	SX_OB_20220312_20_04_S_S_Primary_EUF	Mar 12, 2022	8:04PM	AUS Leachate - Reagent Water	M22-Ma28376	X		X	
55	SX_OB_20220313_00_03_S_S_Primary_EUF	Mar 13, 2022	12:03PM	AUS Leachate - Reagent Water	M22-Ma28377	X		X	
56	SX_OB_20220313_04_06_S	Mar 13, 2022	4:06AM	AUS Leachate - Reagent	M22-Ma28378	X		X	

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

Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

Order No.:
Report #: 871152
Phone: 08 8338 1009
Fax:

Received: Mar 15, 2022 1:00 PM
Due: Mar 22, 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 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
57	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28379	X		X	
58	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28380	X		X	
59	SX_OB_20220 313_11_47_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28381	X		X	

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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
60	SX_OB_20220313_15_44_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28382	X		X	
61	SX_OB_20220313_15_48_S_S_Duplicate_EU_F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28383	X		X	
62	SX_OB_20220313_20_01_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28384	X		X	
63	SX_OB_20220314_00_11_S	Mar 14, 2022	4:06AM	AUS Leachate - Reagent	M22-Ma28385	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
64	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28386	X		X	
65	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28387	X		X	
66	SX_OB_20220 314_08_13_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28388	X		X	

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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
67	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28389	X		X	
68	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28390	X		X	
69	SX_OB_20220 314_15_43_S S_Duplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28391	X		X	
70	SX_OB_20220 314_20_00_S	Mar 14, 2022	8:00PM	AUS Leachate - Reagent	M22-Ma28392	X		X	

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		Fax:		Contact Name:	Agon Lab Reports (Spoil Project)
Project Name:	20220315043631-Eurofin-21 solid_00				
Project ID:	JC0927				

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
71	SX_OB_20220 315_00_04_S S_Primary_EU F	Mar 15, 2022	12:04AM	AUS Leachate - Reagent Water	M22-Ma28393	X		X	
72	SX_OB_20220 315_03_53_S S_Primary_EU F	Mar 15, 2022	3:53AM	AUS Leachate - Reagent Water	M22-Ma28394	X		X	
Test Counts						48	24	72	24

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

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

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

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

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

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Method Blank						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05		0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01		0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01		0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01		0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01		0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01		0.01	Pass	
Method Blank						
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05		0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05		0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05		0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05		0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05		0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05		0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05		0.05	Pass	
Method Blank						
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01		0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01		0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01		0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01		0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01		0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01		0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01		0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01		0.01	Pass	
Method Blank						
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05		0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01		0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01		0.01	Pass	
LCS - % Recovery						
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)	%	87		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	121		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	77		50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94		50-150	Pass	
Perfluorononanoic acid (PFNA)	%	90		50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	92		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	95		50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	118		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	83		50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code	
LCS - % Recovery								
Perfluoroalkyl sulfonamido substances								
Perfluorooctane sulfonamide (FOSA)	%	92			50-150	Pass		
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	85			50-150	Pass		
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	93			50-150	Pass		
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	83			50-150	Pass		
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	88			50-150	Pass		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	78			50-150	Pass		
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	72			50-150	Pass		
LCS - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA)								
Perfluorobutanesulfonic acid (PFBS)	%	86			50-150	Pass		
Perfluorononanesulfonic acid (PFNS)	%	79			50-150	Pass		
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass		
Perfluoropentanesulfonic acid (PFPeS)	%	81			50-150	Pass		
Perfluorohexanesulfonic acid (PFHxS)	%	99			50-150	Pass		
Perfluoroheptanesulfonic acid (PFHpS)	%	109			50-150	Pass		
Perfluorooctanesulfonic acid (PFOS)	%	94			50-150	Pass		
Perfluorodecanesulfonic acid (PFDS)	%	61			50-150	Pass		
LCS - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)								
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass		
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	95			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)	%	97			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-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances								
				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28359	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-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28359	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28359	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28365	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28365	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28384	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28384	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTTrDA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28385	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28385	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M22-Ma28390	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M22-Ma28390	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments

Eurofins | Environment Testing accreditation number 1261, site 18217 is currently in progress of a controlled transition to a new custom built location at 179 Magowar Road, Girraween, NSW 2145. All results on this report denoted as being performed by Eurofins | Environment Testing Unit F3, Building F, 16 Mars road, Lane Cove West, NSW 2066, corporate site 18217, will have been performed on either Lane Cove or new Girraween site

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Catherine Wilson	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](#).

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Environment Testing

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Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	SX_OB_20220312_08_00_S_S_Primary_EU F	Mar 12, 2022	8:00AM	Soil	M22-Ma28323		X	X	X
2	SX_OB_20220312_08_13_S_S_Triplicate_EU F	Mar 12, 2022	8:11AM	Soil	M22-Ma28324		X	X	X
3	SX_OB_20220312_12_10_S_S_Primary_EU F	Mar 12, 2022		Soil	M22-Ma28325		X	X	X



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Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
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Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

Order No.:
Report #: 871152
Phone: 08 8338 1009
Fax:

Received: Mar 15, 2022 1:00 PM
Due: Mar 22, 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 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
4	SX_OB_20220312_16_01_S_S_Primary_EU_F	Mar 12, 2022	4:01PM	Soil	M22-Ma28326		X	X	X
5	SX_OB_20220312_16_02_S_S_Duplicate_EU_F	Mar 12, 2022	4:02PM	Soil	M22-Ma28327		X	X	X
6	SX_OB_20220312_20_04_S_S_Primary_EU_F	Mar 12, 2022	8:04PM	Soil	M22-Ma28328		X	X	X
7	SX_OB_20220313_00_03_S	Mar 13, 2022	12:03PM	Soil	M22-Ma28329		X	X	X



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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
8	SX_OB_20220 313_04_06_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28330		X	X	X
9	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	Soil	M22-Ma28331		X	X	X
10	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	Soil	M22-Ma28332		X	X	X

Company Name: Agon Environmental Pty Ltd - VIC
Address: 3/224 Glen Osmond Road
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Project Name: 20220315043631-Eurofin-21 solid_00
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Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
11	SX_OB_20220313_11_47_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	Soil	M22-Ma28333		X	X	X
12	SX_OB_20220313_15_44_S_S_Primary_EU_F	Mar 13, 2022	4:06AM	Soil	M22-Ma28334		X	X	X
13	SX_OB_20220313_15_48_S_S_Duplicate_EUF	Mar 13, 2022	4:06AM	Soil	M22-Ma28335		X	X	X
14	SX_OB_20220313_20_01_S	Mar 13, 2022	4:06AM	Soil	M22-Ma28336		X	X	X



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Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
15	SX_OB_20220 314_00_11_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28337		X	X	X
16	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	Soil	M22-Ma28338		X	X	X
17	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	Soil	M22-Ma28339		X	X	X



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Company Name: Agon Environmental Pty Ltd - VIC
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Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
18	SX_OB_20220314_08_13_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	Soil	M22-Ma28340		X	X	X
19	SX_OB_20220314_11_54_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	Soil	M22-Ma28341		X	X	X
20	SX_OB_20220314_15_42_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	Soil	M22-Ma28342		X	X	X
21	SX_OB_20220314_15_43_S	Mar 14, 2022	4:06AM	Soil	M22-Ma28343		X	X	X



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Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Duplicate_EUF								
22	SX_OB_20220314_20_00_S_S_Primary_EUF	Mar 14, 2022	8:00PM	Soil	M22-Ma28344		X	X	X
23	SX_OB_20220315_00_04_S_S_Primary_EUF	Mar 15, 2022	12:04AM	Soil	M22-Ma28345		X	X	X
24	SX_OB_20220315_03_53_S_S_Primary_EUF	Mar 15, 2022	3:53AM	Soil	M22-Ma28346		X	X	X

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

Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

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Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
25	SX_OB_20220 312_08_00_S S_Primary_EU F	Mar 12, 2022	8:00AM	AUS Leachate - pH 5.0	M22-Ma28347	X		X	
26	SX_OB_20220 312_08_13_S S_Triplicate_E UF	Mar 12, 2022	8:11AM	AUS Leachate - pH 5.0	M22-Ma28348	X		X	
27	SX_OB_20220 312_12_10_S S_Primary_EU F	Mar 12, 2022		AUS Leachate - pH 5.0	M22-Ma28349	X		X	
28	SX_OB_20220 312_16_01_S	Mar 12, 2022	4:01PM	AUS Leachate - pH 5.0	M22-Ma28350	X		X	



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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
29	SX_OB_20220 312_16_02_S S_Duplicate_E UF	Mar 12, 2022	4:02PM	AUS Leachate - pH 5.0	M22-Ma28351	X		X	
30	SX_OB_20220 312_20_04_S S_Primary_EU F	Mar 12, 2022	8:04PM	AUS Leachate - pH 5.0	M22-Ma28352	X		X	
31	SX_OB_20220 313_00_03_S S_Primary_EU F	Mar 13, 2022	12:03PM	AUS Leachate - pH 5.0	M22-Ma28353	X		X	

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Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
32	SX_OB_20220 313_04_06_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28354	X		X	
33	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28355	X		X	
34	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28356	X		X	
35	SX_OB_20220 313_11_47_S	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28357	X		X	



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

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
36	SX_OB_20220 313_15_44_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28358	X		X	
37	SX_OB_20220 313_15_48_S S_Duplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28359	X		X	
38	SX_OB_20220 313_20_01_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28360	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
39	SX_OB_20220 314_00_11_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28361	X		X	
40	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28362	X		X	
41	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28363	X		X	
42	SX_OB_20220 314_08_13_S	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28364	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F								
43	SX_OB_20220 314_11_54_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28365	X		X	
44	SX_OB_20220 314_15_42_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28366	X		X	
45	SX_OB_20220 314_15_43_S S_Duplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - pH 5.0	M22-Ma28367	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
46	SX_OB_20220314_20_00_S_S_Primary_EU_F	Mar 14, 2022	8:00PM	AUS Leachate - pH 5.0	M22-Ma28368	X		X	
47	SX_OB_20220315_00_04_S_S_Primary_EU_F	Mar 15, 2022	12:04AM	AUS Leachate - pH 5.0	M22-Ma28369	X		X	
48	SX_OB_20220315_03_53_S_S_Primary_EU_F	Mar 15, 2022	3:53AM	AUS Leachate - pH 5.0	M22-Ma28370	X		X	
49	SX_OB_20220312_08_00_S	Mar 12, 2022	8:00AM	AUS Leachate - Reagent	M22-Ma28371	X		X	



Environment Testing

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Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
50	SX_OB_20220 312_08_13_S S_Triplicate_E UF	Mar 12, 2022	8:11AM	AUS Leachate - Reagent Water	M22-Ma28372	X		X	
51	SX_OB_20220 312_12_10_S S_Primary_EU F	Mar 12, 2022		AUS Leachate - Reagent Water	M22-Ma28373	X		X	
52	SX_OB_20220 312_16_01_S S_Primary_EU F	Mar 12, 2022	4:01PM	AUS Leachate - Reagent Water	M22-Ma28374	X		X	



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

Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

Order No.:
Report #: 871152
Phone: 08 8338 1009
Fax:

Received: Mar 15, 2022 1:00 PM
Due: Mar 22, 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 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
53	SX_OB_20220312_16_02_S_S_Duplicate_EUF	Mar 12, 2022	4:02PM	AUS Leachate - Reagent Water	M22-Ma28375	X		X	
54	SX_OB_20220312_20_04_S_S_Primary_EUF	Mar 12, 2022	8:04PM	AUS Leachate - Reagent Water	M22-Ma28376	X		X	
55	SX_OB_20220313_00_03_S_S_Primary_EUF	Mar 13, 2022	12:03PM	AUS Leachate - Reagent Water	M22-Ma28377	X		X	
56	SX_OB_20220313_04_06_S	Mar 13, 2022	4:06AM	AUS Leachate - Reagent	M22-Ma28378	X		X	



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Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
Address:	3/224 Glen Osmond Road Fullarton SA 5063	Report #:	871152	Due:	Mar 22, 2022
Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
57	SX_OB_20220 313_08_54_S S_Triplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28379	X		X	
58	SX_OB_20220 313_09_00_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28380	X		X	
59	SX_OB_20220 313_11_47_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28381	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
60	SX_OB_20220 313_15_44_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28382	X		X	
61	SX_OB_20220 313_15_48_S S_Duplicate_E UF	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28383	X		X	
62	SX_OB_20220 313_20_01_S S_Primary_EU F	Mar 13, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28384	X		X	
63	SX_OB_20220 314_00_11_S	Mar 14, 2022	4:06AM	AUS Leachate - Reagent	M22-Ma28385	X		X	

Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFAS)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
64	SX_OB_20220 314_03_57_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28386	X		X	
65	SX_OB_20220 314_08_01_S S_Triplicate_E UF	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28387	X		X	
66	SX_OB_20220 314_08_13_S S_Primary_EU F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28388	X		X	

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

Project Name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927

Order No.:
Report #: 871152
Phone: 08 8338 1009
Fax:

Received: Mar 15, 2022 1:00 PM
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Contact Name: Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
67	SX_OB_20220314_11_54_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28389	X		X	
68	SX_OB_20220314_15_42_S_S_Primary_EU_F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28390	X		X	
69	SX_OB_20220314_15_43_S_S_Duplicate_EU_F	Mar 14, 2022	4:06AM	AUS Leachate - Reagent Water	M22-Ma28391	X		X	
70	SX_OB_20220314_20_00_S	Mar 14, 2022	8:00PM	AUS Leachate - Reagent	M22-Ma28392	X		X	



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Company Name:	Agon Environmental Pty Ltd - VIC	Order No.:		Received:	Mar 15, 2022 1:00 PM
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Project Name:	20220315043631-Eurofin-21 solid_00	Phone:	08 8338 1009	Priority:	5 Day
Project ID:	JC0927	Fax:		Contact Name:	Agon Lab Reports (Spoil Project)

Eurofins Analytical Services Manager : Michael Cassidy

Sample Detail						AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)	IWRG 621 WQTP Suite
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217									
Brisbane Laboratory - NATA # 1261 Site # 20794									
Mayfield Laboratory - NATA # 1261 Site # 25079									
Perth Laboratory - NATA # 2377 Site # 2370									
External Laboratory									
	S_Primary_EU F			Water					
71	SX_OB_20220 315_00_04_S S_Primary_EU F	Mar 15, 2022	12:04AM	AUS Leachate - Reagent Water	M22-Ma28393	X		X	
72	SX_OB_20220 315_03_53_S S_Primary_EU F	Mar 15, 2022	3:53AM	AUS Leachate - Reagent Water	M22-Ma28394	X		X	
Test Counts						48	24	72	24

CHAIN OF CUSTODY RECORD

Sydney Laboratory
Unit F3 Bld.F 16 Mars Road Lane Cove West NSW 4066
02 9900 8400 EnviroSampleNSW@eurofins.com

Disborne Laboratory
Unit 1 21 Smallwood Place Murarie QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2 91 Leach Highway Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

Monterey Road Dandenong South VIC 3175
03 8564 5000 EnviroSampleVic@eurofins.com

Company	AGON Environmental - Tunnel Spoil Testing	Project No	JC0927	Project Manager	Craig Trimbur	Sampler(s)	
Address	Unit H76, 63-85 Turner St, Port Melbourne VIC 3207	Project Name	2022 - 5043631-Eurofin-21 solid_00	EDD Format	Esdat	Handed over by	
Contact Name	Craig Trimbur David Lawson	Analyses <small>(Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attach SUITE pricing)</small> Spoil Sample Preparation Suite WGTP-R1-TRH/PAH/Phenol/OCPP/POB/VOC/Vinyl Chloride/ Metals (As, Cd, Cr, Cu, Ni, Pb,Hg, Ag, Sn, Mo, Se, Zn)/Cr6+/ONI/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		Email for Invoice		finance@agonenviro.com.au LabReports.TST@agonenviro.com.au	
Phone No	+61 400 826 907 (Craig) +61 490 411 004 (David)			Email for Results		LabReports.TST@agonenviro.com.au agonenvironmental@esdat.com.au motherhublabresults1@wgtp.com.au	
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 receipt documentation.			Containers		Required Turnaround Time (TAT)	
Purchase Order		Change container type & size if necessary.		Default will be 5 days if not ticked			
Quote ID No	Agon WGTP TST	500mL Plastic		<input type="checkbox"/> Overnight (reporting by 9am) *Surcharge will apply <input type="checkbox"/> Same day * 1 day * <input type="checkbox"/> 2 days * 3 days * <input checked="" type="checkbox"/> 5 days (Standard) <input type="checkbox"/> Other()			

No	Client Sample ID	Sampled Date/Time	Matrix	As	Cd	Cr	Cu	Ni	Pb	Hg	Ag	Sn	Mo	Se	Zn	Cr6+	ONI	Total Fluoride	PH	PFAS	ASLP	ASLP Reagent	Containers	Other (Asbestos A 6064, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
1	SX_OB_20220312_08_00_SS_Primary_EUF	12/03/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
2	SX_OB_20220312_08_13_SS_Triplicate_EUF	12/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
3	SX_OB_20220312_12_10_SS_Primary_EUF	12/03/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
4	SX_OB_20220312_16_01_SS_Primary_EUF	12/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
5	SX_OB_20220312_16_02_SS_Duplicate_EUF	12/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
6	SX_OB_20220312_20_04_SS_Primary_EUF	12/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
7	SX_OB_20220313_00_03_SS_Primary_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
8	SX_OB_20220313_04_06_SS_Primary_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			871152	
9	SX_OB_20220313_08_54_SS_Triplicate_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			2.0ug/l	
10	SX_OB_20220313_09_00_SS_Primary_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
11	SX_OB_20220313_11_47_SS_Primary_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
12	SX_OB_20220313_15_44_SS_Primary_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
13	SX_OB_20220313_15_48_SS_Duplicate_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			20.1	
	SX_OB_20220313_20_01_SS_Primary_EUF	13/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			-0.2	
	SX_OB_20220314_00_11_SS_Primary_EUF	14/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			19.9	
	SX_OB_20220314_03_57_SS_Primary_EUF	14/3/22	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

QUALITY CONTROL REPORT

Work Order	: EM2204526	Page	: 1 of 51
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: CRAIG TRIMBUR	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	: 15-Mar-2022
Order number	: ----	Date Analysis Commenced	: 16-Mar-2022
C-O-C number	: 20220315041835-ALS-21 solid_00	Issue Date	: 22-Mar-2022
Sampler	: EP RISK/AGON		
Site	: 20220315041835-ALS-21 solid_00		
Quote number	: EN/150/19 -WGTP -Bulk Sample Quote		
No. of samples received	: 48		
No. of samples analysed	: 48		



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

This Quality Control Report contains the following information:

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
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 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: 4236738)									
EM2204517-001	Anonymous	EG005T: Nickel	7440-02-0	2	mg/kg	20	20	0.0	0% - 50%
EM2202923-002	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	27	24	12.1	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Nickel	7440-02-0	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	<5	<5	0.0	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	6	6	0.0	No Limit
		EG005T: Selenium	7782-49-2	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Tin	7440-31-5	5	mg/kg	<5	<5	0.0	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	<5	0.0	No Limit
EM2204517-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	20	22	11.8	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	6	6	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	17	19	12.6	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	17	20	16.3	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	34	39	13.9	No Limit		
EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 4236740)									



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: 4236740) - continued									
EM2204526-010	SX_OB_20220313_08_53_ SS_Duplicate_ALS	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	100	104	4.0	0% - 20%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	159	157	0.9	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	21	19	9.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	64	53	17.7	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	93	85	9.6	0% - 50%		
EM2204526-019	SX_OB_20220314_11_59_ 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	98	97	0.0	0% - 50%
		EG005T: Molybdenum	7439-98-7	2	mg/kg	<5	<5	0.0	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	162	182	11.7	0% - 20%
		EG005T: Silver	7440-22-4	2	mg/kg	<2	<2	0.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	23	21	6.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	60	70	15.8	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	108	114	5.7	0% - 20%		
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4234975)									
EM2204525-002	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.4	7.3	0.0	0% - 20%
EM2204526-007	SX_OB_20220313_00_00_ SS_Primary_ALS	EA001: pH (CaCl2)	----	0.1	pH Unit	7.8	7.8	0.0	0% - 20%
EA001: pH in soil using 0.01M CaCl extract (QC Lot: 4237660)									
EM2204501-001	Anonymous	EA001: pH (CaCl2)	----	0.1	pH Unit	7.5	7.4	0.0	0% - 20%
EM2204526-023	SX_OB_20220315_00_00_ 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: 4235241)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	34.0	35.3	3.6	0% - 20%
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	34.0	34.7	2.0	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4235242)									
EM2204526-021	SX_OB_20220314_15_50_ SS_Primary_ALS	EA055: Moisture Content	----	0.1	%	32.6	32.6	0.0	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 (%)
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 4236739)									
EM2202923-002	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2204517-001	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: 4236741)									
EM2204526-010	SX_OB_20220313_08_53_ SS_Duplicate_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2204526-019	SX_OB_20220314_11_59_ SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4235074)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EM2204526-010	SX_OB_20220313_08_53_ SS_Duplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EG048: Hexavalent Chromium (Alkaline Digest) (QC Lot: 4235075)									
EM2204526-021	SX_OB_20220314_15_50_ SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<1.0	<1.0	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4236186)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EM2204526-010	SX_OB_20220313_08_53_ SS_Duplicate_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EK026SF: Total CN by Segmented Flow Analyser (QC Lot: 4236187)									
EM2204526-021	SX_OB_20220314_15_50_ SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	1	mg/kg	<5	<5	0.0	No Limit
EK040T: Fluoride Total (QC Lot: 4235055)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	120	170	31.4	No Limit
EM2204526-010	SX_OB_20220313_08_53_ SS_Duplicate_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	120	<100	17.9	No Limit
EK040T: Fluoride Total (QC Lot: 4235056)									
EM2204526-021	SX_OB_20220314_15_50_ SS_Primary_ALS	EK040T: Fluoride	16984-48-8	40	mg/kg	140	120	21.8	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4232383)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4232388)									
EM2204242-003	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EM2204243-029	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4230674)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ 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
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 4230675)									
EM2204526-013	SX_OB_20220313_15_52_ 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
EM2204526-023	SX_OB_20220315_00_00_ 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: 4230674)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074H: Naphthalene (QC Lot: 4230675)									



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 (%)
EP074H: Naphthalene (QC Lot: 4230675) - continued									
EM2204526-013	SX_OB_20220313_15_52_ SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EM2204526-023	SX_OB_20220315_00_00_ SS_Primary_ALS	EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP074I: Volatile Halogenated Compounds (QC Lot: 4230674)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-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		
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-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



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: 4230674) - continued									
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	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
EP074I: Volatile Halogenated Compounds (QC Lot: 4230675)									
EM2204526-013	SX_OB_20220313_15_52_ SS_Primary_ALS	EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.50	<0.50	0.0	No Limit
		EP074-UT: 1.1.2.2-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
EM2204526-023	SX_OB_20220315_00_00_ 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: 4230675) - continued									
EM2204526-023	SX_OB_20220315_00_00_ 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: 4232382)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 2.6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.50	<0.50	0.0	No Limit
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.5.6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	<0.03	0.0	No Limit
		EP075-EM: 2.4.5-Trichlorophenol	95-95-4	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.4.6-Trichlorophenol	88-06-2	0.05	mg/kg	<1.00	<1.00	0.0	No Limit
		EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9 0-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
EM2204242-003	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
		EP075A: Phenolic Compounds (Halogenated) (QC Lot: 4232386)							



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 (Halogenated) (QC Lot: 4232386) - continued									
EM2204242-003	Anonymous	EP075-EM: 2.3.4.5 & 2.3.4.6-Tetrachlorophenol	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
			0-2						
EM2204243-029	Anonymous	EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		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	4901-51-3/58-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
	0-2								
		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: 4232382)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EP075-EM: 2-Cyclohexyl-4.6-Dinitrophenol	131-89-5	5	mg/kg	<20	<20	0.0	No Limit
		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
EP075A: Phenolic Compounds (Non-halogenated) (QC Lot: 4232386)									
EM2204242-003	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



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: 4232386) - continued									
EM2204242-003	Anonymous	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
EM2204243-029	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: 4232382)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ 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



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: 4232382) - continued									
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	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		
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4232386)									
EM2204242-003	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
		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		
EM2204243-029	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
		EP075-EM: Chrysene	218-01-9	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 (%)
EP075B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4232386) - continued									
EM2204243-029	Anonymous	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: 4232382)									
EM2204526-001	SX_OB_20220312_08_11_ 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		
EM2204526-011	SX_OB_20220313_11_53_ 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		



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: 4232382) - continued									
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	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		
EP075I: Organochlorine Pesticides (QC Lot: 4232386)									
EM2204242-003	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		
EM2204243-029	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		



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 (%)
EP075J: Organochlorine Pesticides (QC Lot: 4232386) - continued									
EM2204243-029	Anonymous	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		
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4230674)									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4230675)									
EM2204526-013	SX_OB_20220313_15_52_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EM2204526-023	SX_OB_20220315_00_00_ SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<20	<20	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4232384)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ 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 Petroleum Hydrocarbons (QC Lot: 4232387)									
EM2204242-003	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
EM2204243-029	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



Sub-Matrix: SOIL				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4232387) - continued									
EM2204243-029	Anonymous	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: 4230674)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ 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: 4230675)									
EM2204526-013	SX_OB_20220313_15_52_ 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
EM2204526-023	SX_OB_20220315_00_00_ 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: 4232384)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ 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
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4232387)									
EM2204242-003	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
EM2204243-029	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: 4232755)									
EM2204526-001	SX_OB_20220312_08_11_ 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



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: 4232755) - continued									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	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
EM2204526-011	SX_OB_20220313_11_53_ 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
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4232757)									
EM2204243-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	<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
EM2204536-002	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0007	0.0006	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4232755)									
EM2204526-001	SX_OB_20220312_08_11_ 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
EM2204526-011	SX_OB_20220313_11_53_ 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



Sub-Matrix: SOIL

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4232755) - continued									
EM2204526-011	SX_OB_20220313_11_53_ SS_Primary_ALS	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
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4232757)									
EM2204243-002	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
		EM2204536-002	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002
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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4232755)									
EM2204526-001	SX_OB_20220312_08_11_ 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



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: 4232755) - continued									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	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
EM2204526-011	SX_OB_20220313_11_53_ 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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4232757)									
EM2204243-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EM2204536-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit



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: 4232757) - continued									
EM2204536-002	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4232755)									
EM2204526-001	SX_OB_20220312_08_11_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
EM2204526-011	SX_OB_20220313_11_53_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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4232757)									
EM2204243-002	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
EM2204536-002	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



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: 4232757) - continued									
EM2204536-002	Anonymous	EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4232755)									
EM2204526-001	SX_OB_20220312_08_11_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
EM2204526-011	SX_OB_20220313_11_53_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
EP231P: PFAS Sums (QC Lot: 4232757)									
EM2204243-002	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
EM2204536-002	Anonymous	EP231X: Sum of PFAS	----	0.0002	mg/kg	0.0007	0.0006	15.4	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0007	0.0006	15.4	No Limit
		EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0007	0.0006	15.4	No Limit
Sub-Matrix: WATER									
Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4237612)									
EM2204526-001	SX_OB_20220312_08_11_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: 4237896)									
EM2204526-023	SX_OB_20220315_00_00_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



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: 4237896) - continued									
EM2204526-022	SX_OB_20220314_20_04_ 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: 4237897)									
EM2204526-025	SX_OB_20220312_08_11_ 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
EM2204526-034	SX_OB_20220313_08_53_ 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
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4237898)									
EM2204526-045	SX_OB_20220314_15_50_ 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
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4237612)									
EM2204526-001	SX_OB_20220312_08_11_ 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: Perfluoroheptanoic 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



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: 4237612) - continued									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4237896)									
EM2204526-023	SX_OB_20220315_00_00_ 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 (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EM2204526-022	SX_OB_20220314_20_04_ 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 (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4237897)									
EM2204526-025	SX_OB_20220312_08_11_ 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 (PFTTrDA)	72629-94-8	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: 4237897) - continued									
EM2204526-025	SX_OB_20220312_08_11_ SS_Primary_ALS	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
EM2204526-034	SX_OB_20220313_08_53_ 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		
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4237898)									
EM2204526-045	SX_OB_20220314_15_50_ 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		
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4237612)									
EM2204526-001	SX_OB_20220312_08_11_ 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



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: 4237612) - continued									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	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: 4237896)									
EM2204526-023	SX_OB_20220315_00_00_ 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
EM2204526-022	SX_OB_20220314_20_04_ 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: 4237897)									
EM2204526-025	SX_OB_20220312_08_11_ 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



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: 4237897) - continued									
EM2204526-025	SX_OB_20220312_08_11_ SS_Primary_ALS	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
EM2204526-034	SX_OB_20220313_08_53_ 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
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 4237898)									
EM2204526-045	SX_OB_20220314_15_50_ 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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4237612)									
EM2204526-001	SX_OB_20220312_08_11_ 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



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: 4237612) - continued									
EM2204526-001	SX_OB_20220312_08_11_ SS_Primary_ALS	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: 4237896)									
EM2204526-023	SX_OB_20220315_00_00_ 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
EM2204526-022	SX_OB_20220314_20_04_ 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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4237897)									
EM2204526-025	SX_OB_20220312_08_11_ 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
EM2204526-034	SX_OB_20220313_08_53_ 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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4237898)									



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: 4237898) - continued									
EM2204526-045	SX_OB_20220314_15_50_ SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 4237612)									
EM2204526-001	SX_OB_20220312_08_11_ 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: 4237896)									
EM2204526-023	SX_OB_20220315_00_00_ 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
EM2204526-022	SX_OB_20220314_20_04_ 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: 4237897)									
EM2204526-025	SX_OB_20220312_08_11_ 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
EM2204526-034	SX_OB_20220313_08_53_ 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
EP231P: PFAS Sums (QC Lot: 4237898)									
EM2204526-045	SX_OB_20220314_15_50_ SS_Primary_ALS	EP231X: Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	0.0	No Limit

Page : 28 of 51
 Work Order : EM2204526
 Client : AGON ENVIRONMENTAL PTY LTD
 Project : JC0927



Sub-Matrix: **WATER**

				<i>Laboratory Duplicate (DUP) Report</i>					
<i>Laboratory sample ID</i>	<i>Sample ID</i>	<i>Method: Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	<i>Original Result</i>	<i>Duplicate Result</i>	<i>RPD (%)</i>	<i>Acceptable RPD (%)</i>
EP231P: PFAS Sums (QC Lot: 4237898) - continued									
EM2204526-045	SX_OB_20220314_15_50_ SS_Primary_ALS	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: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4236738)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	96.7	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	58.9	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	99.4	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	96.3	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	92.4	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	80.3	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	94.8	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	84.3	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	83.8	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	72.2	70.0	130
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4236740)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	123 mg/kg	96.9	70.0	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.23 mg/kg	58.0	50.0	130
EG005T: Chromium	7440-47-3	2	mg/kg	<2	20.2 mg/kg	100.0	70.0	130
EG005T: Copper	7440-50-8	5	mg/kg	<5	55.9 mg/kg	95.4	70.0	130
EG005T: Lead	7439-92-1	5	mg/kg	<5	62.4 mg/kg	93.0	70.0	130
EG005T: Molybdenum	7439-98-7	2	mg/kg	<2	2.19 mg/kg	79.6	70.0	130
EG005T: Nickel	7440-02-0	2	mg/kg	<2	15.4 mg/kg	95.7	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	84.6	70.0	130
EG005T: Tin	7440-31-5	5	mg/kg	<5	5.33 mg/kg	86.4	70.0	130
EG005T: Zinc	7440-66-6	5	mg/kg	<5	162 mg/kg	72.6	70.0	130
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4232499)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 4232500)								
EN60-DIa-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4234975)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit 7 pH Unit	100 100	98.8 99.3	101 101
EA001: pH in soil using 0.01M CaCl extract (QCLot: 4237660)								
EA001: pH (CaCl2)	----	----	pH Unit	----	4 pH Unit 7 pH Unit	101 100	98.8 99.3	101 101
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4236739)								



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4236739) - continued								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	85.9	70.0	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4236741)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.64 mg/kg	85.2	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4235074)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	81.0	70.0	130
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4235075)								
EG048G: Hexavalent Chromium	18540-29-9	0.5	mg/kg	<0.5	20 mg/kg	80.0	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4236186)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	40 mg/kg	92.1	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4236187)								
EK026SF: Total Cyanide	57-12-5	1	mg/kg	<1	40 mg/kg	82.4	70.0	130
EK040T: Fluoride Total (QCLot: 4235055)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	81.7	75.2	110
EK040T: Fluoride Total (QCLot: 4235056)								
EK040T: Fluoride	16984-48-8	40	mg/kg	<40	400 mg/kg	87.0	75.2	110
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4232383)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	126	67.4	136
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4232388)								
EP066-EM: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	125	67.4	136
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4230674)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	88.4	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	87.3	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	85.8	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	83.6	65.2	112
	106-42-3							
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	88.4	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	85.8	68.4	110
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4230675)								
EP074-UT: Benzene	71-43-2	0.2	mg/kg	<0.2	2.1 mg/kg	81.7	69.2	116
EP074-UT: Toluene	108-88-3	0.5	mg/kg	<0.5	2.1 mg/kg	81.3	67.7	116
EP074-UT: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	2.1 mg/kg	81.3	66.6	115
EP074-UT: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	4.2 mg/kg	78.8	65.2	112
	106-42-3							
EP074-UT: Styrene	100-42-5	0.5	mg/kg	<0.5	2.1 mg/kg	81.1	69.4	111
EP074-UT: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.1 mg/kg	79.6	68.4	110
EP074H: Naphthalene (QCLot: 4230674)								
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	92.0	72.3	114



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP074H: Naphthalene (QCLot: 4230675)									
EP074-UT: Naphthalene	91-20-3	1	mg/kg	<1	0.6 mg/kg	94.2	72.3	114	
EP074I: Volatile Halogenated Compounds (QCLot: 4230674)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	73.9	47.0	138	
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	87.2	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	90.3	72.3	115	
EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	88.0	60.5	122	
EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	90.0	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	89.6	66.6	115	
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	86.6	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	85.2	58.4	127	
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	98.6	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	87.6	64.7	115	
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	93.2	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	87.8	60.0	119	
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	86.6	71.8	116	
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	91.5	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	75.5	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	89.8	70.3	113	
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	88.4	62.6	113	
EP074-UT: 1.2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	88.2	70.8	110	
EP074-UT: 1.2.4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	90.8	48.4	120	
EP074I: Volatile Halogenated Compounds (QCLot: 4230675)									
EP074-UT: Vinyl chloride	75-01-4	0.02	mg/kg	<0.02	0.1 mg/kg	56.2	47.0	138	
EP074-UT: 1.1-Dichloroethene	75-35-4	0.01	mg/kg	<0.01	0.1 mg/kg	77.3	57.6	125	
EP074-UT: Methylene chloride	75-09-2	0.4	mg/kg	<0.4	2.1 mg/kg	79.8	72.3	115	
EP074-UT: trans-1.2-Dichloroethene	156-60-5	0.02	mg/kg	<0.02	0.1 mg/kg	78.6	60.5	122	
EP074-UT: cis-1.2-Dichloroethene	156-59-2	0.01	mg/kg	<0.01	0.1 mg/kg	81.1	70.3	112	
EP074-UT: Chloroform	67-66-3	0.02	mg/kg	<0.02	0.1 mg/kg	82.4	66.6	115	
EP074-UT: 1.1.1-Trichloroethane	71-55-6	0.01	mg/kg	<0.01	0.1 mg/kg	80.3	64.4	122	
EP074-UT: Carbon Tetrachloride	56-23-5	0.01	mg/kg	<0.01	0.1 mg/kg	78.2	58.4	127	
EP074-UT: 1.2-Dichloroethane	107-06-2	0.02	mg/kg	<0.02	0.1 mg/kg	88.2	72.9	114	
EP074-UT: Trichloroethene	79-01-6	0.02	mg/kg	<0.02	0.1 mg/kg	80.8	64.7	115	
EP074-UT: 1.1.2-Trichloroethane	79-00-5	0.04	mg/kg	<0.04	0.1 mg/kg	83.0	72.6	116	
EP074-UT: Tetrachloroethene	127-18-4	0.02	mg/kg	<0.02	0.1 mg/kg	82.2	60.0	119	
EP074-UT: 1.1.1.2-Tetrachloroethane	630-20-6	0.01	mg/kg	<0.01	0.1 mg/kg	78.8	71.8	116	
EP074-UT: 1.1.2.2-Tetrachloroethane	79-34-5	0.02	mg/kg	<0.02	0.1 mg/kg	81.2	66.1	116	
EP074-UT: Hexachlorobutadiene	87-68-3	0.02	mg/kg	<0.02	0.1 mg/kg	77.0	39.8	128	
EP074-UT: Chlorobenzene	108-90-7	0.02	mg/kg	<0.02	0.1 mg/kg	81.8	70.3	113	
EP074-UT: 1.4-Dichlorobenzene	106-46-7	0.02	mg/kg	<0.02	0.1 mg/kg	83.2	62.6	113	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP074I: Volatile Halogenated Compounds (QCLot: 4230675) - continued									
EP074-UT: 1,2-Dichlorobenzene	95-50-1	0.02	mg/kg	<0.02	0.1 mg/kg	79.4	70.8	110	
EP074-UT: 1,2,4-Trichlorobenzene	120-82-1	0.01	mg/kg	<0.01	0.1 mg/kg	80.3	48.4	120	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4232382)									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	111	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	81.9	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	82.2	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	82.4	72.8	128	
EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	95.7	73.3	134	
EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	93.7	72.4	128	
EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	93.5	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	99.4	71.9	128	
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	80.5	54.4	135	
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4232386)									
EP075-EM: 2-Chlorophenol	95-57-8	0.03	mg/kg	<0.03	2 mg/kg	95.3	74.5	126	
EP075-EM: 2,4-Dichlorophenol	120-83-2	0.03	mg/kg	<0.03	2 mg/kg	77.6	72.7	126	
EP075-EM: 2,6-Dichlorophenol	87-65-0	0.03	mg/kg	<0.03	2 mg/kg	79.3	73.5	132	
EP075-EM: 4-Chloro-3-methylphenol	59-50-7	0.03	mg/kg	<0.03	2 mg/kg	76.1	72.8	128	
EP075-EM: 2,4,5-Trichlorophenol	95-95-4	0.05	mg/kg	<0.05	2 mg/kg	90.9	73.3	134	
EP075-EM: 2,4,6-Trichlorophenol	88-06-2	0.05	mg/kg	<0.05	2 mg/kg	85.8	72.4	128	
EP075-EM: 2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<0.03	2 mg/kg	86.8	69.4	126	
EP075-EM: 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	4901-51-3/5 8-90-2	0.05	mg/kg	<0.05	4 mg/kg	91.4	71.9	128	
EP075-EM: Pentachlorophenol	87-86-5	0.2	mg/kg	<0.2	4 mg/kg	66.1	54.4	135	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4232382)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	115	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	110	73.4	129	
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	98.4	74.3	129	
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	81.9	70.9	133	
EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	82.2	71.8	132	
EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	82.3	41.0	156	
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	100	65.3	134	
EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	103	43.6	128	
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	82.0	62.0	128	
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	76.0	34.5	137	
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4232386)									
EP075-EM: Phenol	108-95-2	1	mg/kg	<1	2 mg/kg	94.4	71.5	130	
EP075-EM: 2-Methylphenol	95-48-7	1	mg/kg	<1	2 mg/kg	93.7	73.4	129	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike	Spike Recovery (%)	Acceptable Limits (%)	
					Concentration	LCS	Low	High
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4232386) - continued								
EP075-EM: 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	4 mg/kg	92.7	74.3	129
EP075-EM: 2-Nitrophenol	88-75-5	1	mg/kg	<1	2 mg/kg	78.4	70.9	133
EP075-EM: 2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	2 mg/kg	78.4	71.8	132
EP075-EM: 2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	10 mg/kg	75.2	41.0	156
EP075-EM: 4-Nitrophenol	100-02-7	5	mg/kg	<5	10 mg/kg	98.8	65.3	134
EP075-EM: 2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	10 mg/kg	94.4	43.6	128
EP075-EM: Dinoseb	88-85-7	5	mg/kg	<5	10 mg/kg	78.2	62.0	128
EP075-EM: 2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	5	mg/kg	<5	10 mg/kg	62.2	34.5	137
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4232382)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	84.7	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	94.3	76.3	130
EP075-EM: Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	2 mg/kg	94.8	72.0	135
EP075-EM: Fluorene	86-73-7	0.5	mg/kg	<0.5	2 mg/kg	96.2	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	87.6	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	87.7	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	85.5	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	87.2	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	89.0	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	88.9	75.0	133
EP075-EM: Benzo(b+j) & Benzo(k)fluoranthene	205-99-2 207-08-9	1	mg/kg	<1.0	4 mg/kg	87.9	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	86.5	65.1	130
EP075-EM: Indeno(1,2,3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	87.6	72.1	134
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	88.0	72.9	135
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	86.8	71.3	134
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4232386)								
EP075-EM: Naphthalene	91-20-3	0.5	mg/kg	<0.5	2 mg/kg	79.8	73.0	131
EP075-EM: Acenaphthene	83-32-9	0.5	mg/kg	<0.5	2 mg/kg	93.3	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	94.4	74.4	131
EP075-EM: Phenanthrene	85-01-8	0.5	mg/kg	<0.5	2 mg/kg	85.5	73.3	130
EP075-EM: Anthracene	120-12-7	0.5	mg/kg	<0.5	2 mg/kg	85.6	78.4	127
EP075-EM: Fluoranthene	206-44-0	0.5	mg/kg	<0.5	2 mg/kg	78.0	75.3	132
EP075-EM: Pyrene	129-00-0	0.5	mg/kg	<0.5	2 mg/kg	79.4	75.4	130
EP075-EM: Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	2 mg/kg	80.1	69.6	133
EP075-EM: Chrysene	218-01-9	0.5	mg/kg	<0.5	2 mg/kg	84.5	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	80.1	75.8	133
EP075-EM: Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	2 mg/kg	81.5	65.1	130



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4232386) - continued									
EP075-EM: Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	2 mg/kg	80.2	72.1	134	
EP075-EM: Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg	<0.5	2 mg/kg	79.9	72.9	135	
EP075-EM: Benzo(g,h,i)perylene	191-24-2	0.5	mg/kg	<0.5	2 mg/kg	78.6	71.3	134	
EP075I: Organochlorine Pesticides (QCLot: 4232382)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	86.2	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	85.7	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	87.7	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	87.8	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	90.1	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	86.3	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	87.5	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	86.7	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	86.6	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	85.9	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	86.7	69.4	134	
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	87.1	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	88.1	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	83.7	69.0	143	
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	92.5	55.7	145	
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	87.9	71.4	135	
EP075-EM: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	88.2	74.8	134	
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	88.5	70.2	135	
EP075-EM: 4.4`-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	86.4	77.7	133	
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	89.2	63.6	135	
EP075I: Organochlorine Pesticides (QCLot: 4232386)									
EP075-EM: alpha-BHC	319-84-6	0.03	mg/kg	<0.03	2 mg/kg	85.3	71.0	129	
EP075-EM: Hexachlorobenzene (HCB)	118-74-1	0.03	mg/kg	<0.03	2 mg/kg	83.1	74.8	126	
EP075-EM: beta-BHC	319-85-7	0.03	mg/kg	<0.03	2 mg/kg	85.2	75.7	130	
EP075-EM: gamma-BHC	58-89-9	0.03	mg/kg	<0.03	2 mg/kg	84.7	70.8	130	
EP075-EM: delta-BHC	319-86-8	0.03	mg/kg	<0.03	2 mg/kg	87.6	76.5	134	
EP075-EM: Heptachlor	76-44-8	0.03	mg/kg	<0.03	2 mg/kg	78.5	75.5	131	
EP075-EM: Aldrin	309-00-2	0.03	mg/kg	<0.03	2 mg/kg	84.4	76.8	130	
EP075-EM: Heptachlor epoxide	1024-57-3	0.03	mg/kg	<0.03	2 mg/kg	83.4	73.6	130	
EP075-EM: cis-Chlordane	5103-71-9	0.03	mg/kg	<0.03	2 mg/kg	77.1	75.0	133	
EP075-EM: trans-Chlordane	5103-74-2	0.03	mg/kg	<0.03	2 mg/kg	77.6	75.3	131	
EP075-EM: Endosulfan 1	959-98-8	0.03	mg/kg	<0.03	2 mg/kg	81.0	69.4	134	
EP075-EM: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	2 mg/kg	80.2	71.0	132	
EP075-EM: Dieldrin	60-57-1	0.03	mg/kg	<0.03	2 mg/kg	80.7	78.0	133	
EP075-EM: Endrin aldehyde	7421-93-4	0.03	mg/kg	<0.03	2 mg/kg	70.2	69.0	143	



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP075I: Organochlorine Pesticides (QCLot: 4232386) - continued								
EP075-EM: Endrin	72-20-8	0.03	mg/kg	<0.03	2 mg/kg	81.1	55.7	145
EP075-EM: Endosulfan 2	33213-65-9	0.03	mg/kg	<0.03	2 mg/kg	81.8	71.4	135
EP075-EM: 4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	2 mg/kg	81.1	74.8	134
EP075-EM: Endosulfan sulfate	1031-07-8	0.03	mg/kg	<0.03	2 mg/kg	80.7	70.2	135
EP075-EM: 4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	2 mg/kg	# 77.3	77.7	133
EP075-EM: Methoxychlor	72-43-5	0.03	mg/kg	<0.03	2 mg/kg	78.7	63.6	135
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4230674)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	99.0	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4230675)								
EP074-UT: C6 - C9 Fraction	----	10	mg/kg	<10	39.6 mg/kg	92.2	61.1	119
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4232384)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	760 mg/kg	95.4	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	3270 mg/kg	98.4	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1550 mg/kg	97.7	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	97.7	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4232387)								
EP071-EM: C10 - C14 Fraction	----	50	mg/kg	<50	760 mg/kg	103	74.4	129
EP071-EM: C15 - C28 Fraction	----	100	mg/kg	<100	3270 mg/kg	105	81.0	123
EP071-EM: C29 - C36 Fraction	----	100	mg/kg	<100	1550 mg/kg	104	81.8	121
EP071-EM: C10 - C36 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	104	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4230674)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	98.8	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: 4230675)								
EP074-UT: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	48.9 mg/kg	91.9	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: 4232384)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1110 mg/kg	95.8	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	4180 mg/kg	98.1	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	290 mg/kg	95.4	73.3	136
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	97.5	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4232387)								
EP071-EM: >C10 - C16 Fraction	----	50	mg/kg	<50	1110 mg/kg	114	75.4	132
EP071-EM: >C16 - C34 Fraction	----	100	mg/kg	<100	4180 mg/kg	103	80.8	120
EP071-EM: >C34 - C40 Fraction	----	100	mg/kg	<100	290 mg/kg	100	73.3	136
EP071-EM: >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	5580 mg/kg	105	70.0	130



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4232755)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	80.0	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	76.3	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	73.4	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	102	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	85.6	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	91.2	59.0	134	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4232757)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00111 mg/kg	80.4	72.0	128	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	76.0	73.0	123	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.0014 mg/kg	77.1	67.0	130	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	80.7	70.0	132	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	75.4	68.0	136	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00121 mg/kg	83.8	59.0	134	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4232755)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	91.9	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	120	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	86.5	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.7	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	98.3	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	118	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.8	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	116	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	82.7	69.0	133	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4232757)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	96.8	71.0	135	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.9	69.0	132	
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.2	70.0	132	
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.8	71.0	131	
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.1	69.0	133	
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	72.0	129	
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	105	69.0	133	
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.5	64.0	136	
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	96.2	69.0	135	
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.7	66.0	139	
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	72.3	69.0	133	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4232755)									



Sub-Matrix: SOIL

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike	Spike Recovery (%)		Acceptable Limits (%)	
					Concentration	LCS	Low	High	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4232755) - continued									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.2	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	129	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	105	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	103	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	116	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.4	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	106	61.0	139	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4232757)									
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	78.7	67.0	137	
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	129	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	93.3	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	121	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	94.4	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.4	63.0	144	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.8	61.0	139	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4232755)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	105	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	88.2	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	93.0	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	86.6	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4232757)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	93.8	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	88.6	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	99.0	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	90.6	70.0	130	
EP231P: PFAS Sums (QCLot: 4232755)									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231P: PFAS Sums (QCLot: 4232757)									



Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231P: PFAS Sums (QCLot: 4232757) - continued									
EP231X: Sum of PFAS	----	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.0002	mg/kg	<0.0002	----	----	----	----	
EP231X: Sum of PFAS (WA DER List)	----	0.0002	mg/kg	<0.0002	----	----	----	----	

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report				
					Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
						LCS	Low	High	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237612)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	85.5	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	80.8	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	79.0	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	82.5	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	81.2	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	82.7	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237896)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	90.7	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	98.5	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	88.7	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	96.2	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	96.5	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237897)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	111	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	104	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	100	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	102	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	97.6	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	112	53.0	142	
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237898)									
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.222 µg/L	102	72.0	130	
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.235 µg/L	88.2	71.0	127	
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.228 µg/L	94.0	68.0	131	
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	93.1	69.0	134	
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.232 µg/L	93.0	65.0	140	
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.241 µg/L	103	53.0	142	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237612)									
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	84.4	73.0	129	
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	83.7	72.0	129	



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
						LCS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237612) - continued								
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	86.2	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	85.5	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.1	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	84.3	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	95.8	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	117	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	87.0	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	81.1	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	103	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237896)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	97.9	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	98.8	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	95.0	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	98.3	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	98.2	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	113	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	130	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	92.7	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	88.7	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	113	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237897)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	97.5	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	99.4	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	98.0	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	96.4	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	91.6	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	107	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	131	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	93.6	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	91.8	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	108	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237898)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	97.8	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	99.9	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	100	72.0	130



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
				Result	Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
					LCS	Low	High	
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237898) - continued								
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	102	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	99.1	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	120	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	133	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 (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	101	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	116	71.0	132
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237612)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	80.3	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	131	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	98.2	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	93.4	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	84.7	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	79.7	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	69.8	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237896)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	94.3	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	123	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	121	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	97.2	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	84.5	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	80.7	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237897)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	112	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	94.6	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	110	70.0	130
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	110	70.0	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	101	70.0	130



Sub-Matrix: WATER

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report				
				Result	Spike Concentration	Spike Recovery (%)		Acceptable Limits (%)	
					LCS	Low	High		
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237897) - continued									
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	98.2	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	100	61.0	135	
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237898)									
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	134	68.0	141	
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	97.0	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	115	70.0	130	
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	102	70.0	130	
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	101	65.0	136	
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	94.0	61.0	135	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237612)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	92.3	63.0	143	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	101	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	86.2	67.0	138	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	71.6	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237896)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	99.5	63.0	143	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	112	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	112	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	89.1	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237897)									
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.234 µg/L	93.8	63.0	143	
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.238 µg/L	112	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	97.9	67.0	138	
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.242 µg/L	99.4	70.0	130	
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237898)									
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	111	64.0	140	
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.24 µg/L	97.8	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	81.2	70.0	130	
EP231P: PFAS Sums (QCLot: 4237612)									
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 (%)	Acceptable Limits (%)	
						LCS	Low	High
EP231P: PFAS Sums (QCLot: 4237612) - 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: 4237896)								
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: 4237897)								
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: 4237898)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFAS (WA DER List)	----	0.01	µg/L	<0.01	----	----	----	----

Matrix Spike (MS) Report

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

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike Concentration	Spike Recovery(%)	Acceptable Limits (%)	
					MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4236738)							
EM2204225-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	94.9	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	94.5	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	86.1	79.0	121
		EG005T: Copper	7440-50-8	250 mg/kg	101	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	95.4	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	93.1	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	85.5	80.0	120
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4236740)							
EM2204526-011	SX_OB_20220313_11_53_SS_Primary_ALS	EG005T: Arsenic	7440-38-2	50 mg/kg	81.4	78.0	124
		EG005T: Cadmium	7440-43-9	50 mg/kg	99.0	79.7	116
		EG005T: Chromium	7440-47-3	50 mg/kg	99.7	79.0	121



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005(ED093)T: Total Metals by ICP-AES (QCLot: 4236740) - continued							
EM2204526-011	SX_OB_20220313_11_53_SS_Primary_ALS	EG005T: Copper	7440-50-8	250 mg/kg	106	80.0	120
		EG005T: Lead	7439-92-1	250 mg/kg	98.4	80.0	120
		EG005T: Nickel	7440-02-0	50 mg/kg	99.1	78.0	120
		EG005T: Zinc	7440-66-6	250 mg/kg	94.4	80.0	120
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4236739)							
EM2204225-001	Anonymous	EG035T: Mercury	7439-97-6	0.5 mg/kg	100	76.0	116
EG035T: Total Recoverable Mercury by FIMS (QCLot: 4236741)							
EM2204526-011	SX_OB_20220313_11_53_SS_Primary_ALS	EG035T: Mercury	7439-97-6	0.5 mg/kg	102	76.0	116
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4235074)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	82.9	58.0	114
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	94.2	58.0	114
EG048: Hexavalent Chromium (Alkaline Digest) (QCLot: 4235075)							
EM2204526-022	SX_OB_20220314_20_04_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	80.5	58.0	114
EM2204526-022	SX_OB_20220314_20_04_SS_Primary_ALS	EG048G: Hexavalent Chromium	18540-29-9	20 mg/kg	97.5	58.0	114
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4236186)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	119	70.0	130
EK026SF: Total CN by Segmented Flow Analyser (QCLot: 4236187)							
EM2204526-022	SX_OB_20220314_20_04_SS_Primary_ALS	EK026SF: Total Cyanide	57-12-5	20 mg/kg	85.9	70.0	130
EK040T: Fluoride Total (QCLot: 4235055)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	79.6	70.0	130
EK040T: Fluoride Total (QCLot: 4235056)							
EM2204526-022	SX_OB_20220314_20_04_SS_Primary_ALS	EK040T: Fluoride	16984-48-8	400 mg/kg	85.3	70.0	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4232383)							
EM2204526-003	SX_OB_20220312_12_15_SS_Primary_ALS	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	141	59.6	152
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4232388)							
EM2204242-015	Anonymous	EP066-EM: Total Polychlorinated biphenyls	----	1 mg/kg	117	59.6	152
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4230674)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP074-UT: Benzene	71-43-2	2 mg/kg	67.2	53.7	130
		EP074-UT: Toluene	108-88-3	2 mg/kg	69.0	55.1	124
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 4230675)							
EM2204526-014	SX_OB_20220313_20_04_SS_Primary_ALS	EP074-UT: Benzene	71-43-2	4 mg/kg	93.2	53.7	130
		EP074-UT: Toluene	108-88-3	4 mg/kg	92.9	55.1	124
EP074I: Volatile Halogenated Compounds (QCLot: 4230674)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	2 mg/kg	55.5	38.4	145



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP074I: Volatile Halogenated Compounds (QCLot: 4230674) - continued							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP074-UT: Trichloroethene	79-01-6	2 mg/kg	62.0	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	2 mg/kg	68.2	55.5	122
EP074I: Volatile Halogenated Compounds (QCLot: 4230675)							
EM2204526-014	SX_OB_20220313_20_04_SS_Primary_ALS	EP074-UT: 1,1-Dichloroethene	75-35-4	4 mg/kg	89.3	38.4	145
		EP074-UT: Trichloroethene	79-01-6	4 mg/kg	86.0	48.1	128
		EP074-UT: Chlorobenzene	108-90-7	4 mg/kg	88.6	55.5	122
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4232382)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	112	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	97.2	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	81.7	10.0	144
EP075A: Phenolic Compounds (Halogenated) (QCLot: 4232386)							
EM2204242-006	Anonymous	EP075-EM: 2-Chlorophenol	95-57-8	3 mg/kg	83.2	44.0	143
		EP075-EM: 4-Chloro-3-methylphenol	59-50-7	3 mg/kg	80.5	41.5	139
		EP075-EM: Pentachlorophenol	87-86-5	3 mg/kg	82.1	10.0	144
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4232382)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP075-EM: Phenol	108-95-2	3 mg/kg	119	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	92.2	34.2	129
EP075A: Phenolic Compounds (Non-halogenated) (QCLot: 4232386)							
EM2204242-006	Anonymous	EP075-EM: Phenol	108-95-2	3 mg/kg	83.1	44.2	134
		EP075-EM: 2-Nitrophenol	88-75-5	3 mg/kg	74.4	34.2	129
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4232382)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	87.0	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	91.3	37.8	152
EP075B: Polynuclear Aromatic Hydrocarbons (QCLot: 4232386)							
EM2204242-006	Anonymous	EP075-EM: Acenaphthene	83-32-9	3 mg/kg	88.9	42.6	138
		EP075-EM: Pyrene	129-00-0	3 mg/kg	76.8	37.8	152
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4230674)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	71.8	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4230675)							
EM2204526-014	SX_OB_20220313_20_04_SS_Primary_ALS	EP074-UT: C6 - C9 Fraction	----	28 mg/kg	107	42.3	111
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4232384)							
EM2204526-004	SX_OB_20220312_15_55_SS_Primary_ALS	EP071-EM: C10 - C14 Fraction	----	760 mg/kg	107	71.3	126
		EP071-EM: C15 - C28 Fraction	----	3270 mg/kg	100	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1550 mg/kg	98.8	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5580 mg/kg	101	70.0	130



Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4232387)							
EM2204242-009	Anonymous	EP071-EM: C10 - C14 Fraction	----	760 mg/kg	99.5	71.3	126
		EP071-EM: C15 - C28 Fraction	----	3270 mg/kg	101	75.1	123
		EP071-EM: C29 - C36 Fraction	----	1550 mg/kg	99.8	78.1	120
		EP071-EM: C10 - C36 Fraction (sum)	----	5580 mg/kg	100	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4230674)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	71.1	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4230675)							
EM2204526-014	SX_OB_20220313_20_04_SS_Primary_ALS	EP074-UT: C6 - C10 Fraction	C6_C10	33 mg/kg	101	39.9	109
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4232384)							
EM2204526-004	SX_OB_20220312_15_55_SS_Primary_ALS	EP071-EM: >C10 - C16 Fraction	----	1110 mg/kg	121	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	4180 mg/kg	96.2	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	290 mg/kg	99.3	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5580 mg/kg	101	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4232387)							
EM2204242-009	Anonymous	EP071-EM: >C10 - C16 Fraction	----	1110 mg/kg	110	71.5	130
		EP071-EM: >C16 - C34 Fraction	----	4180 mg/kg	98.9	76.9	119
		EP071-EM: >C34 - C40 Fraction	----	290 mg/kg	95.8	65.3	139
		EP071-EM: >C10 - C40 Fraction (sum)	----	5580 mg/kg	101	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4232755)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	92.6	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	77.6	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	120	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	80.6	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	83.7	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	89.0	59.0	134
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4232757)							
EM2204243-020	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00111 mg/kg	84.4	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00118 mg/kg	73.0	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00114 mg/kg	109	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	73.2	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	# 42.0	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00121 mg/kg	79.5	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4232755)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	91.1	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	91.6	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	102	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	89.0	71.0	131



Sub-Matrix: SOIL

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4232755) - continued							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	105	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	85.2	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	127	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	102	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	119	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	114	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	72.8	69.0	133
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4232757)							
EM2204243-020	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	75.5	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	91.6	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	96.4	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	79.0	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	95.4	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	84.8	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	130	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	98.1	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	112	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	108	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	69.7	69.0	133		
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4232755)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	73.7	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	126	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	128	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	105	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	125	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	84.3	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	102	61.0	139
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4232757)							
EM2204243-020	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	75.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	# 134	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	102	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	129	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
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4232757) - continued							
EM2204243-020	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	100	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	102	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	82.0	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4232755)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	106	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	106	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	88.9	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	87.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4232757)							
EM2204243-020	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	102	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00119 mg/kg	89.7	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0012 mg/kg	88.8	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00121 mg/kg	# 56.7	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
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237612)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	104	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	91.5	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	94.6	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	96.6	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	81.6	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	90.1	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237896)							
EM2204526-010	SX_OB_20220313_08_53_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	93.8	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	104	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	105	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	104	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	86.9	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	99.8	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237897)							
EM2204526-026	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.222 µg/L	96.3	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.235 µg/L	103	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	101	68.0	131



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: 4237897) - continued							
EM2204526-026	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	116	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	93.1	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	70.4	53.0	142
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4237898)							
EM2204526-046	SX_OB_20220314_20_04_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	93.9	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.228 µg/L	94.3	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.238 µg/L	101	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.232 µg/L	101	65.0	140
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.241 µg/L	99.9	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237612)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	89.2	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	93.2	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	91.1	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	99.8	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	96.5	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	92.4	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	106	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	120	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	90.9	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	86.8	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	109	71.0	132
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237896)					
EM2204526-010	SX_OB_20220313_08_53_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	100	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	102	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	97.8	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	101	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	94.6	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	94.5	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	117	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	133	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	98.6	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	92.1	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	114	71.0	132
		EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237897)					
EM2204526-026	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	95.2	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	99.5	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	97.9	72.0	129



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237897) - continued							
EM2204526-026	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	101	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	97.3	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	97.1	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	122	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	129	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	# 47.8	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	106	71.0	132
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4237898)							
EM2204526-046	SX_OB_20220314_20_04_SS_Primary_ALS	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	98.8	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	101	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	97.1	72.0	129
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	102	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	99.3	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	100	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	112	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	130	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	98.3	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	87.7	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	112	71.0	132
		EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237612)					
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	90.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	101	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	109	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	115	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	99.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	80.6	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	86.1	61.0	135
		EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237896)					
EM2204526-010	SX_OB_20220313_08_53_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	104	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	130	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	91.4	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: 4237896) - continued							
EM2204526-010	SX_OB_20220313_08_53_SS_Duplicate_ALS	EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	111	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	101	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	111	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	85.6	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237897)							
EM2204526-026	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	97.4	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	138	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	109	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	89.8	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	97.6	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	89.1	61.0	135
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 4237898)							
EM2204526-046	SX_OB_20220314_20_04_SS_Primary_ALS	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	104	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	132	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	115	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	107	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	92.7	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	102	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	97.7	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237612)							
EM2204526-002	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	101	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	117	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	107	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	82.4	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
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237896)							
EM2204526-010	SX_OB_20220313_08_53_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	98.5	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	111	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	107	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	84.4	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237897)							
EM2204526-026	SX_OB_20220312_08_12_SS_Duplicate_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	101	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	112	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	104	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	# 43.7	70.0	130
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4237898)							
EM2204526-046	SX_OB_20220314_20_04_SS_Primary_ALS	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.234 µg/L	111	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.238 µg/L	109	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.24 µg/L	120	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.242 µg/L	76.3	70.0	130

CERTIFICATE OF ANALYSIS

Work Order : **EM2204526**
Client : **AGON ENVIRONMENTAL PTY LTD**
Contact : CRAIG TRIMBUR
Address : D1.1 63-85 TURNER STREET
 PORT MELBOURNE 3207

Telephone : ----
Project : JC0927
Order number : ----
C-O-C number : 20220315041835-ALS-21 solid_00
Sampler : EP RISK/AGON
Site : 20220315041835-ALS-21 solid_00
Quote number : EN/150/19 -WGTP -Bulk Sample Quote
No. of samples received : 48
No. of samples analysed : 48

Page : 1 of 63
Laboratory : Environmental Division Melbourne
Contact : Bronwyn Sheen
Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +6138549 9600
Date Samples Received : 15-Mar-2022 12:00
Date Analysis Commenced : 16-Mar-2022
Issue Date : 22-Mar-2022 16:48



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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
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.

- EP231X: Poor matrix spike recovery for sample EM2204526-026 due to sample matrix interference.
- 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 EM2204243-020 due to sample matrix interference.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.
- EN60-DI: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				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)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				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	%	95.1	95.2	95.9	97.2	96.6
13C8-PFOA	----	0.02	%	102	102	104	105	104



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				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)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	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	%	92.4	91.8	95.1	95.9	108
13C8-PFOA	----	0.02	%	109	102	106	103	103



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				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 (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	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)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				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	%	94.1	94.9	83.6	95.5	108
13C8-PFOA	----	0.02	%	102	105	110	103	101



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	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)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	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	%	91.5	92.7	108	94.6	97.3
13C8-PFOA	----	0.02	%	103	99.9	104	106	101



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	SX_OB_20220315_00_00_SS_Primary_ALS	SX_OB_20220315_03_57_SS_Primary_ALS	----
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	----
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	-----
				Result	Result	Result	Result	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<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	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	SX_OB_20220315_00_00_SS_Primary_ALS	SX_OB_20220315_03_57_SS_Primary_ALS	----
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	----
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	-----
				Result	Result	Result	Result	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<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	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<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	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	89.1	107	95.4	98.4	----
13C8-PFOA	----	0.02	%	101	107	100	102	----



Analytical Results

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

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-025	EM2204526-026	EM2204526-027	EM2204526-028	EM2204526-029
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (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)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-025	EM2204526-026	EM2204526-027	EM2204526-028	EM2204526-029
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	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	%	92.2	87.6	88.7	101	96.8
13C8-PFOA	----	0.02	%	101	104	102	103	104



Analytical Results

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

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-030	EM2204526-031	EM2204526-032	EM2204526-033	EM2204526-034
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	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)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-030	EM2204526-031	EM2204526-032	EM2204526-033	EM2204526-034
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	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	%	105	91.9	102	101	102
13C8-PFOA	----	0.02	%	106	102	103	104	103



Analytical Results

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

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	14-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-035	EM2204526-036	EM2204526-037	EM2204526-038	EM2204526-039
				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)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	14-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-035	EM2204526-036	EM2204526-037	EM2204526-038	EM2204526-039
				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	%	87.8	110	107	111	118
13C8-PFOA	----	0.02	%	99.4	97.8	97.5	105	101



Analytical Results

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

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-040	EM2204526-041	EM2204526-042	EM2204526-043	EM2204526-044
				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)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-040	EM2204526-041	EM2204526-042	EM2204526-043	EM2204526-044
				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	%	99.2	82.1	106	94.2	104
13C8-PFOA	----	0.02	%	105	103	100	102	101



Analytical Results

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

Sample ID

				SX_OB_20220314_15 _50_SS_Primary_ALS	SX_OB_20220314_20 _04_SS_Primary_ALS	SX_OB_20220315_00 _00_SS_Primary_ALS	SX_OB_20220315_03 _57_SS_Primary_ALS	----
Sampling date / time				14-Mar-2022 00:00	14-Mar-2022 00:00	15-Mar-2022 00:00	15-Mar-2022 00:00	----
Compound	CAS Number	LOR	Unit	EM2204526-045	EM2204526-046	EM2204526-047	EM2204526-048	-----
				Result	Result	Result	Result	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.05	µg/L	<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	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----



Analytical Results

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

Sample ID

				SX_OB_20220314_15 _50_SS_Primary_ALS	SX_OB_20220314_20 _04_SS_Primary_ALS	SX_OB_20220315_00 _00_SS_Primary_ALS	SX_OB_20220315_03 _57_SS_Primary_ALS	----
Sampling date / time				14-Mar-2022 00:00	14-Mar-2022 00:00	15-Mar-2022 00:00	15-Mar-2022 00:00	----
Compound	CAS Number	LOR	Unit	EM2204526-045	EM2204526-046	EM2204526-047	EM2204526-048	-----
				Result	Result	Result	Result	----
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.05	µg/L	<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	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.10	µg/L	<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	----
Sum of PFAS (WA DER List)	----	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	101	89.8	94.4	90.8	----
13C8-PFOA	----	0.02	%	102	101	108	104	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	7.8	7.6	7.7	7.6	7.8
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	34.0	34.9	34.3	35.8	33.4
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	21	22	17	19	17
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	106	100	154	88	95
Copper	7440-50-8	5	mg/kg	61	64	56	50	57
Lead	7439-92-1	5	mg/kg	<5	<5	<5	6	<5
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	<5
Nickel	7440-02-0	5	mg/kg	161	168	150	124	152
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	98	110	98	82	100
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<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	120	140	120	140	<100
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.0	5.0	5.1	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
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
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)								
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
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
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
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
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08_11_SS_Primary_ALS	SX_OB_20220312_08_12_SS_Duplicate_ALS	SX_OB_20220312_12_15_SS_Primary_ALS	SX_OB_20220312_15_55_SS_Primary_ALS	SX_OB_20220312_16_02_SS_Triplicate_ALS
Sampling date / time				12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
Compound	CAS Number	LOR	Unit	EM2204526-001	EM2204526-002	EM2204526-003	EM2204526-004	EM2204526-005
				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	105	101	102	115
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	84.8	84.8	95.8	79.1	83.3
Toluene-D8	2037-26-5	0.1	%	81.9	81.6	90.7	74.3	78.7
4-Bromofluorobenzene	460-00-4	0.1	%	96.3	100	108	87.1	93.1
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	102	105	85.7	93.1	116
2-Chlorophenol-D4	93951-73-6	0.025	%	94.0	96.4	82.1	90.1	94.5
2,4,6-Tribromophenol	118-79-6	0.025	%	84.6	80.1	71.0	76.0	90.5
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	83.3	90.4	82.5	82.9	93.3
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	77.2	82.7	73.6	73.5	85.2
2-Fluorobiphenyl	321-60-8	0.025	%	106	101	94.5	101	116
Anthracene-d10	1719-06-8	0.025	%	97.7	91.5	82.9	88.6	99.7
4-Terphenyl-d14	1718-51-0	0.025	%	99.5	91.6	84.7	84.0	103
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	97.8	91.4	86.8	86.2	82.8
13C8-PFOA	----	0.0002	%	103	98.8	107	104	98.1



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				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	7.6	7.6
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	32.6	35.7	31.3	32.4	35.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	20	21	20	19	21
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	103	100	96	94	100
Copper	7440-50-8	5	mg/kg	57	65	56	58	64
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	156	158	161	151	159
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	<5
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	<2
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	<10
Zinc	7440-66-6	5	mg/kg	103	99	102	85	93
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	<100	120	<100	120	120
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
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)								
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
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
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
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
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_20_00_SS_Primary_ALS	SX_OB_20220313_00_00_SS_Primary_ALS	SX_OB_20220313_04_00_SS_Primary_ALS	SX_OB_20220313_08_48_SS_Primary_ALS	SX_OB_20220313_08_53_SS_Duplicate_ALS
Sampling date / time				12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
Compound	CAS Number	LOR	Unit	EM2204526-006	EM2204526-007	EM2204526-008	EM2204526-009	EM2204526-010
				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	<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	%	101	113	107	104	98.3
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	85.0	87.9	91.2	97.4	90.9
Toluene-D8	2037-26-5	0.1	%	83.2	84.4	90.4	93.6	89.9
4-Bromofluorobenzene	460-00-4	0.1	%	97.9	99.2	104	108	105
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	88.8	95.5	104	118	100
2-Chlorophenol-D4	93951-73-6	0.025	%	87.5	91.3	92.6	94.9	86.0
2,4,6-Tribromophenol	118-79-6	0.025	%	79.4	84.8	88.1	90.7	81.5
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	85.8	89.9	90.0	90.2	84.2
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	76.9	79.7	80.0	87.0	77.2
2-Fluorobiphenyl	321-60-8	0.025	%	101	110	97.2	109	104
Anthracene-d10	1719-06-8	0.025	%	88.9	95.4	94.6	99.8	87.0
4-Terphenyl-d14	1718-51-0	0.025	%	92.2	99.9	89.7	103	89.7
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	76.8	101	76.8	73.9	89.5
13C8-PFOA	----	0.0002	%	96.2	106	98.3	100	105



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				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	7.6	7.7
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	34.0	35.2	33.3	31.7	37.6
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	21	20	17	22	14
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	102	109	102	98	94
Copper	7440-50-8	5	mg/kg	58	62	56	59	58
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	158	172	161	163	139
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	102	114	97	110	83
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	160	120	<100	120	130
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
Final pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.2
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
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
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)								
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
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
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
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
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_11_53_SS_Primary_ALS	SX_OB_20220313_15_49_SS_Triplicate_ALS	SX_OB_20220313_15_52_SS_Primary_ALS	SX_OB_20220313_20_04_SS_Primary_ALS	SX_OB_20220314_00_06_SS_Primary_ALS
Sampling date / time				13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
Compound	CAS Number	LOR	Unit	EM2204526-011	EM2204526-012	EM2204526-013	EM2204526-014	EM2204526-015
				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	%	113	103	112	103	108
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	100	85.9	81.7	61.1	67.0
Toluene-D8	2037-26-5	0.1	%	96.0	83.8	81.5	63.2	66.0
4-Bromofluorobenzene	460-00-4	0.1	%	110	96.5	90.7	75.1	77.3
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	98.4	98.5	101	111	105
2-Chlorophenol-D4	93951-73-6	0.025	%	82.8	86.0	101	90.9	95.4
2,4,6-Tribromophenol	118-79-6	0.025	%	92.1	75.3	91.3	83.4	86.8
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	90.6	82.6	100	87.3	94.4
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	83.8	76.3	87.8	76.1	84.2
2-Fluorobiphenyl	321-60-8	0.025	%	110	90.7	107	93.8	104
Anthracene-d10	1719-06-8	0.025	%	97.8	80.2	97.3	91.1	94.0
4-Terphenyl-d14	1718-51-0	0.025	%	102	81.9	103	93.9	96.3
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	96.3	86.0	106	106	83.8
13C8-PFOA	----	0.0002	%	107	97.0	105	108	97.2



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EA001: pH in soil using 0.01M CaCl extract								
pH (CaCl2)	----	0.1	pH Unit	8.4	8.3	8.1	7.7	7.6
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	38.1	36.6	36.9	31.5	33.5
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	19	20	20	23	19
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	5	mg/kg	102	97	104	98	84
Copper	7440-50-8	5	mg/kg	63	60	66	60	51
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	155	151	161	162	150
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	94	109	107	108	105
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
EK026SF: Total CN by Segmented Flow Analyser								
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	<5
EK040T: Fluoride Total								
Fluoride	16984-48-8	100	mg/kg	160	160	170	140	110
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
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	5.0	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
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
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)								
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



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
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
Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
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
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP075I: Organochlorine Pesticides - Continued								
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
^ Sum of other organochlorine pesticides	----	0.03	mg/kg	<0.03	<0.03	<0.03	<0.03	<0.03
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	mg/kg	<20	<20	<20	<20	<20
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction	C6_C10	20	mg/kg	<20	<20	<20	<20	<20
C15 - C28 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	<50	<50	<50	<50
>C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	mg/kg	<20	<20	<20	<20	<20
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane sulfonic acid (PFDS)	335-77-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231B: Perfluoroalkyl Carboxylic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
			Sampling date / time	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorobutanoic acid (PFBA)	375-22-4	5	µg/kg	<5	<5	<5	<5	<5
Perfluoropentanoic acid (PFPeA)	2706-90-3	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorohexanoic acid (PFHxA)	307-24-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroheptanoic acid (PFHpA)	375-85-9	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorononanoic acid (PFNA)	375-95-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	<5.0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	10.0	µg/kg	<10.0	<10.0	<10.0	<10.0	<10.0
EP231D: (n:2) Fluorotelomer Sulfonic Acids								



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_04_02_SS_Primary_ALS	SX_OB_20220314_07_59_SS_Primary_ALS	SX_OB_20220314_08_00_SS_Duplicate_ALS	SX_OB_20220314_11_59_SS_Primary_ALS	SX_OB_20220314_15_44_SS_Triplicate_ALS
Sampling date / time				14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
Compound	CAS Number	LOR	Unit	EM2204526-016	EM2204526-017	EM2204526-018	EM2204526-019	EM2204526-020
				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	%	112	116	119	102	114
EP074S: VOC Surrogates (Ultra-Trace)								
1,2-Dichloroethane-D4	17060-07-0	0.1	%	75.6	81.0	77.1	81.8	87.9
Toluene-D8	2037-26-5	0.1	%	73.8	81.6	77.2	81.2	83.1
4-Bromofluorobenzene	460-00-4	0.1	%	88.8	95.2	85.3	95.4	94.3
EP075S: Acid Extractable Surrogates (Waste Classification)								
Phenol-d6	13127-88-3	0.025	%	104	111	103	118	106
2-Chlorophenol-D4	93951-73-6	0.025	%	95.7	107	111	93.2	89.9
2,4,6-Tribromophenol	118-79-6	0.025	%	85.4	108	100	81.3	92.8
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)								
Nitrobenzene-D5	4165-60-0	0.025	%	92.8	109	104	91.8	101
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	79.6	95.0	98.6	80.5	84.5
2-Fluorobiphenyl	321-60-8	0.025	%	101	127	118	97.9	109
Anthracene-d10	1719-06-8	0.025	%	91.5	116	107	88.8	100
4-Terphenyl-d14	1718-51-0	0.025	%	95.3	121	112	91.0	104
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	76.2	71.7	83.0	73.9	78.6
13C8-PFOA	----	0.0002	%	94.6	98.6	96.2	102	98.4



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220314_15 _50_SS_Primary_ALS	SX_OB_20220314_20 _04_SS_Primary_ALS	SX_OB_20220315_00 _00_SS_Primary_ALS	SX_OB_20220315_03 _57_SS_Primary_ALS	SX_OB_20220312_08 _11_SS_Primary_ALS
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025	
				Result	Result	Result	Result	Result	
EA001: pH in soil using 0.01M CaCl extract									
pH (CaCl2)	----	0.1	pH Unit	7.7	7.9	7.7	8.0	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%	32.6	30.9	32.5	34.0	----	
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg	20	21	21	21	----	
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	----	
Chromium	7440-47-3	5	mg/kg	83	93	96	92	----	
Copper	7440-50-8	5	mg/kg	59	57	57	71	----	
Lead	7439-92-1	5	mg/kg	<5	<5	<5	<5	----	
Molybdenum	7439-98-7	5	mg/kg	<5	<5	<5	<5	----	
Nickel	7440-02-0	5	mg/kg	157	144	150	176	----	
Selenium	7782-49-2	5	mg/kg	<5	<5	<5	<5	----	
Silver	7440-22-4	2	mg/kg	<2	<2	<2	<2	----	
Tin	7440-31-5	10	mg/kg	<10	<10	<10	<10	----	
Zinc	7440-66-6	5	mg/kg	94	97	105	110	----	
EG035T: Total Recoverable Mercury by FIMS									
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	----	
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	----	
EK026SF: Total CN by Segmented Flow Analyser									
Total Cyanide	57-12-5	5	mg/kg	<5	<5	<5	<5	----	
EK040T: Fluoride Total									
Fluoride	16984-48-8	100	mg/kg	140	110	140	160	----	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Extraction Fluid pH	----	0.1	pH Unit	5.0	5.0	5.0	5.0	----	
Final pH	----	0.1	pH Unit	5.1	5.1	5.1	5.1	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	----	----	----	----	7.6	
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg	<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	----	
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----	



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	SX_OB_20220315_00_00_SS_Primary_ALS	SX_OB_20220315_03_57_SS_Primary_ALS	SX_OB_20220312_08_11_SS_Primary_ALS
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025
				Result	Result	Result	Result	Result
EP074A: Monocyclic Aromatic Hydrocarbons - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
meta- & para-Xylene	108-38-3	106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	----
Styrene	100-42-5	0.5	mg/kg	<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	----
[^] Sum of monocyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
[^] Total Xylenes	----	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<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	----
1,1-Dichloroethene	75-35-4	0.50	mg/kg	<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	----
trans-1,2-Dichloroethene	156-60-5	0.50	mg/kg	<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	----
Chloroform	67-66-3	0.50	mg/kg	<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	----
Carbon Tetrachloride	56-23-5	0.50	mg/kg	<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	----
Trichloroethene	79-01-6	0.50	mg/kg	<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	----
Tetrachloroethene	127-18-4	0.50	mg/kg	<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	----
1,1,1,2,2-Tetrachloroethane	79-34-5	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	----
Hexachlorobutadiene	87-68-3	0.50	mg/kg	<0.50	<0.50	<0.50	<0.50	----
Chlorobenzene	108-90-7	0.50	mg/kg	<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	----
1,2-Dichlorobenzene	95-50-1	0.50	mg/kg	<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	----
[^] Sum of volatile chlorinated hydrocarbons	----	0.50	mg/kg	<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	----
EP075A: Phenolic Compounds (Halogenated)								
2-Chlorophenol	95-57-8	0.50	mg/kg	<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	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	SX_OB_20220315_00_00_SS_Primary_ALS	SX_OB_20220315_03_57_SS_Primary_ALS	SX_OB_20220312_08_11_SS_Primary_ALS
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025
				Result	Result	Result	Result	Result
EP075A: Phenolic Compounds (Halogenated) - Continued								
2,6-Dichlorophenol	87-65-0	0.50	mg/kg	<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	----
2,4,5-Trichlorophenol	95-95-4	1.00	mg/kg	<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	----
2,3,5,6-Tetrachlorophenol	935-95-5	0.03	mg/kg	<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	----
Pentachlorophenol	87-86-5	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	----
^ Sum of Phenols (halogenated)	----	1.00	mg/kg	<1.00	<1.00	<1.00	<1.00	----
EP075A: Phenolic Compounds (Non-halogenated)								
Phenol	108-95-2	1	mg/kg	<1	<1	<1	<1	----
2-Methylphenol	95-48-7	1	mg/kg	<1	<1	<1	<1	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	<1	<1	----
2-Nitrophenol	88-75-5	1	mg/kg	<1	<1	<1	<1	----
2,4-Dimethylphenol	105-67-9	1	mg/kg	<1	<1	<1	<1	----
2,4-Dinitrophenol	51-28-5	5	mg/kg	<5	<5	<5	<5	----
4-Nitrophenol	100-02-7	5	mg/kg	<5	<5	<5	<5	----
2-Methyl-4,6-dinitrophenol	8071-51-0	5	mg/kg	<5	<5	<5	<5	----
Dinoseb	88-85-7	20	mg/kg	<20	<20	<20	<20	----
2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	20	mg/kg	<20	<20	<20	<20	----
^ Sum of Phenols (non-halogenated)	----	20	mg/kg	<20	<20	<20	<20	----
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	----
Pyrene	129-00-0	0.5	mg/kg	<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	----
Chrysene	218-01-9	0.5	mg/kg	<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	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_15 _50_SS_Primary_ALS	SX_OB_20220314_20 _04_SS_Primary_ALS	SX_OB_20220315_00 _00_SS_Primary_ALS	SX_OB_20220315_03 _57_SS_Primary_ALS	SX_OB_20220312_08 _11_SS_Primary_ALS
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025
				Result	Result	Result	Result	Result
EP075B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<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	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<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	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<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	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	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	----
EP075I: Organochlorine Pesticides								
alpha-BHC	319-84-6	0.05	mg/kg	<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	----
beta-BHC	319-85-7	0.05	mg/kg	<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	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Aldrin	309-00-2	0.05	mg/kg	<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	----
cis-Chlordane	5103-71-9	0.03	mg/kg	<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	----
Endosulfan 1	959-98-8	0.05	mg/kg	<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	----
Dieldrin	60-57-1	0.05	mg/kg	<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	----
Endrin	72-20-8	0.05	mg/kg	<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	----
4.4'-DDD	72-54-8	0.05	mg/kg	<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	----
4.4'-DDT	50-29-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
Methoxychlor	72-43-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
^ Sum of organochlorine pesticides	----	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.30	mg/kg	<0.30	<0.30	<0.30	<0.30	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/5 0-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	----
^ Chlordane	57-74-9	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	SX_OB_20220315_00_00_SS_Primary_ALS	SX_OB_20220315_03_57_SS_Primary_ALS	SX_OB_20220312_08_11_SS_Primary_ALS	
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00		
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025		
				Result	Result	Result	Result	Result		
EP075I: Organochlorine Pesticides - Continued										
^ 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	----
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	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_15_50_SS_Primary_ALS	SX_OB_20220314_20_04_SS_Primary_ALS	SX_OB_20220315_00_00_SS_Primary_ALS	SX_OB_20220315_03_57_SS_Primary_ALS	SX_OB_20220312_08_11_SS_Primary_ALS
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorooctanoic acid (PFOA)	335-67-1	5.0	µg/kg	<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	----
Perfluorodecanoic acid (PFDA)	335-76-2	5.0	µg/kg	<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	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	5.0	µg/kg	<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	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	5.0	µg/kg	<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	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	5.0	µg/kg	<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	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	5.0	µg/kg	<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	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	10.0	µg/kg	<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	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	5.0	µg/kg	<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	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	5.0	µg/kg	<5.0	<5.0	<5.0	<5.0	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220314_15 _50_SS_Primary_ALS	SX_OB_20220314_20 _04_SS_Primary_ALS	SX_OB_20220315_00 _00_SS_Primary_ALS	SX_OB_20220315_03 _57_SS_Primary_ALS	SX_OB_20220312_08 _11_SS_Primary_ALS
Sampling date / time				14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2204526-021	EM2204526-022	EM2204526-023	EM2204526-024	EM2204526-025	
				Result	Result	Result	Result	Result	
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
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	%	100	116	119	118	118	----
EP074S: VOC Surrogates (Ultra-Trace)									
1,2-Dichloroethane-D4	17060-07-0	0.1	%	85.3	87.8	73.8	87.4	87.4	----
Toluene-D8	2037-26-5	0.1	%	85.2	88.2	72.4	87.8	87.8	----
4-Bromofluorobenzene	460-00-4	0.1	%	96.8	97.2	87.8	96.5	96.5	----
EP075S: Acid Extractable Surrogates (Waste Classification)									
Phenol-d6	13127-88-3	0.025	%	85.8	94.4	104	104	104	----
2-Chlorophenol-D4	93951-73-6	0.025	%	80.6	90.1	96.5	98.0	98.0	----
2,4,6-Tribromophenol	118-79-6	0.025	%	75.6	83.6	90.8	95.8	95.8	----
EP075T: Base/Neutral Extractable Surrogates (Waste Classification)									
Nitrobenzene-D5	4165-60-0	0.025	%	81.8	90.6	99.4	99.1	99.1	----
1,2-Dichlorobenzene-D4	2199-69-1	0.025	%	78.6	89.5	98.1	98.4	98.4	----
2-Fluorobiphenyl	321-60-8	0.025	%	94.2	106	114	116	116	----
Anthracene-d10	1719-06-8	0.025	%	92.0	102	110	112	112	----
4-Terphenyl-d14	1718-51-0	0.025	%	80.6	89.0	96.6	97.6	97.6	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%	87.2	79.8	96.8	99.2	99.2	----
13C8-PFOA	----	0.0002	%	94.9	101	95.0	102	102	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220312_08 _12_SS_Duplicate_AL S	SX_OB_20220312_12 _15_SS_Primary_ALS	SX_OB_20220312_15 _55_SS_Primary_ALS	SX_OB_20220312_16 _02_SS_Triplicate_AL S	SX_OB_20220312_20 _00_SS_Primary_ALS
Sampling date / time				12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00	12-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-026	EM2204526-027	EM2204526-028	EM2204526-029	EM2204526-030
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.0	9.0	9.3	8.9	8.9



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_00 _00_SS_Primary_ALS	SX_OB_20220313_04 _00_SS_Primary_ALS	SX_OB_20220313_08 _48_SS_Primary_ALS	SX_OB_20220313_08 _53_SS_Duplicate_AL S	SX_OB_20220313_11 _53_SS_Primary_ALS
Sampling date / time				13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-031	EM2204526-032	EM2204526-033	EM2204526-034	EM2204526-035
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	8.9	8.7	8.6	8.7	8.8



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220313_15 _49_SS_Triplicate_AL S	SX_OB_20220313_15 _52_SS_Primary_ALS	SX_OB_20220313_20 _04_SS_Primary_ALS	SX_OB_20220314_00 _06_SS_Primary_ALS	SX_OB_20220314_04 _02_SS_Primary_ALS
Sampling date / time				13-Mar-2022 00:00	13-Mar-2022 00:00	13-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-036	EM2204526-037	EM2204526-038	EM2204526-039	EM2204526-040
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.0	8.7	8.8	9.3	9.4



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				SX_OB_20220314_07 _59_SS_Primary_ALS	SX_OB_20220314_08 _00_SS_Duplicate_AL S	SX_OB_20220314_11 _59_SS_Primary_ALS	SX_OB_20220314_15 _44_SS_Triplicate_AL S	SX_OB_20220314_15 _50_SS_Primary_ALS
Sampling date / time				14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00	14-Mar-2022 00:00
Compound	CAS Number	LOR	Unit	EM2204526-041	EM2204526-042	EM2204526-043	EM2204526-044	EM2204526-045
				Result	Result	Result	Result	Result
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Final pH	----	0.1	pH Unit	9.4	9.3	9.4	8.9	8.8



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	SX_OB_20220314_20 _04_SS_Primary_ALS	SX_OB_20220315_00 _00_SS_Primary_ALS	SX_OB_20220315_03 _57_SS_Primary_ALS	----	----
Sampling date / time				14-Mar-2022 00:00	15-Mar-2022 00:00	15-Mar-2022 00:00	----	----	
Compound	CAS Number	LOR	Unit	EM2204526-046	EM2204526-047	EM2204526-048	-----	-----	
				Result	Result	Result	----	----	
EN60-DI: Bottle Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Final pH	----	0.1	pH Unit	8.8	8.8	9.2	----	----	



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	: EM2204526	Page	: 1 of 64
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: CRAIG TRIMBUR		
Address	: D1.1 63-85 TURNER STREET PORT MELBOURNE 3207	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: ----	E-mail	: bronwyn.sheen@alsglobal.com
Telephone	: ----	Telephone	: +6138549 9600
Facsimile	: ----	Facsimile	: +61-3-8549 9626
Project	: JC0927	Date Received	: 15-Mar-2022 12:00
Order number	: ----	Date Analysed	: 16-Mar-2022
C-O-C number	: 20220315041835-ALS-21 solid_00	Date Issued	: 22-Mar-2022 16:25
No. of samples received	: 48		
No. of samples analysed	: 48	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_20220312_08_11 SS_Primary_ALS	EM2204526-001	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_OB_20220312_08_11 SS_Primary_ALS	EM2204526-001	Nickel	EG005T	5	< 60 mg/kg	161 mg/kg
SX_OB_20220312_08_12 SS_Duplicate_ALS	EM2204526-002	Arsenic	EG005T	5	< 20 mg/kg	22 mg/kg
SX_OB_20220312_08_12 SS_Duplicate_ALS	EM2204526-002	Nickel	EG005T	5	< 60 mg/kg	168 mg/kg
SX_OB_20220312_12_15 SS_Primary_ALS	EM2204526-003	Nickel	EG005T	5	< 60 mg/kg	150 mg/kg
SX_OB_20220312_15_55 SS_Primary_ALS	EM2204526-004	Nickel	EG005T	5	< 60 mg/kg	124 mg/kg
SX_OB_20220312_16_02 SS_Triplicate_ALS	EM2204526-005	Nickel	EG005T	5	< 60 mg/kg	152 mg/kg
SX_OB_20220312_20_00 SS_Primary_ALS	EM2204526-006	Arsenic	EG005T	5	< 20 mg/kg	20 mg/kg
SX_OB_20220312_20_00 SS_Primary_ALS	EM2204526-006	Nickel	EG005T	5	< 60 mg/kg	156 mg/kg
SX_OB_20220313_00_00 SS_Primary_ALS	EM2204526-007	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_OB_20220313_00_00 SS_Primary_ALS	EM2204526-007	Nickel	EG005T	5	< 60 mg/kg	158 mg/kg
SX_OB_20220313_04_00 SS_Primary_ALS	EM2204526-008	Arsenic	EG005T	5	< 20 mg/kg	20 mg/kg
SX_OB_20220313_04_00 SS_Primary_ALS	EM2204526-008	Nickel	EG005T	5	< 60 mg/kg	161 mg/kg
SX_OB_20220313_08_48 SS_Primary_ALS	EM2204526-009	Nickel	EG005T	5	< 60 mg/kg	151 mg/kg
SX_OB_20220313_08_53 SS_Duplicate_ALS	EM2204526-010	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_OB_20220313_08_53 SS_Duplicate_ALS	EM2204526-010	Nickel	EG005T	5	< 60 mg/kg	159 mg/kg
SX_OB_20220313_11_53 SS_Primary_ALS	EM2204526-011	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_OB_20220313_11_53 SS_Primary_ALS	EM2204526-011	Nickel	EG005T	5	< 60 mg/kg	158 mg/kg
SX_OB_20220313_15_49 SS_Triplicate_ALS	EM2204526-012	Arsenic	EG005T	5	< 20 mg/kg	20 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_20220313_15_49 SS_Triplicate_ALS	EM2204526-012	Nickel	EG005T	5	< 60 mg/kg	172 mg/kg
SX_OB_20220313_15_52 SS_Primary_ALS	EM2204526-013	Nickel	EG005T	5	< 60 mg/kg	161 mg/kg
SX_OB_20220313_20_04 SS_Primary_ALS	EM2204526-014	Arsenic	EG005T	5	< 20 mg/kg	22 mg/kg
SX_OB_20220313_20_04 SS_Primary_ALS	EM2204526-014	Nickel	EG005T	5	< 60 mg/kg	163 mg/kg
SX_OB_20220314_00_06 SS_Primary_ALS	EM2204526-015	Nickel	EG005T	5	< 60 mg/kg	139 mg/kg
SX_OB_20220314_04_02 SS_Primary_ALS	EM2204526-016	Nickel	EG005T	5	< 60 mg/kg	155 mg/kg
SX_OB_20220314_07_59 SS_Primary_ALS	EM2204526-017	Arsenic	EG005T	5	< 20 mg/kg	20 mg/kg
SX_OB_20220314_07_59 SS_Primary_ALS	EM2204526-017	Nickel	EG005T	5	< 60 mg/kg	151 mg/kg
SX_OB_20220314_08_00 SS_Duplicate_ALS	EM2204526-018	Arsenic	EG005T	5	< 20 mg/kg	20 mg/kg
SX_OB_20220314_08_00 SS_Duplicate_ALS	EM2204526-018	Nickel	EG005T	5	< 60 mg/kg	161 mg/kg
SX_OB_20220314_11_59 SS_Primary_ALS	EM2204526-019	Arsenic	EG005T	5	< 20 mg/kg	23 mg/kg
SX_OB_20220314_11_59 SS_Primary_ALS	EM2204526-019	Nickel	EG005T	5	< 60 mg/kg	162 mg/kg
SX_OB_20220314_15_44 SS_Triplicate_ALS	EM2204526-020	Nickel	EG005T	5	< 60 mg/kg	150 mg/kg
SX_OB_20220314_15_50 SS_Primary_ALS	EM2204526-021	Arsenic	EG005T	5	< 20 mg/kg	20 mg/kg
SX_OB_20220314_15_50 SS_Primary_ALS	EM2204526-021	Nickel	EG005T	5	< 60 mg/kg	157 mg/kg
SX_OB_20220314_20_04 SS_Primary_ALS	EM2204526-022	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_OB_20220314_20_04 SS_Primary_ALS	EM2204526-022	Nickel	EG005T	5	< 60 mg/kg	144 mg/kg
SX_OB_20220315_00_00 SS_Primary_ALS	EM2204526-023	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg
SX_OB_20220315_00_00 SS_Primary_ALS	EM2204526-023	Nickel	EG005T	5	< 60 mg/kg	150 mg/kg
SX_OB_20220315_03_57 SS_Primary_ALS	EM2204526-024	Arsenic	EG005T	5	< 20 mg/kg	21 mg/kg

Page : 4 of 64
Work Order : EM2204526
Client : AGON ENVIRONMENTAL PTY LTD
Project : JC0927



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_20220315_03_57 SS_Primary_ALS	EM2204526-024	Nickel	EG005T	5	< 60 mg/kg	176 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	Sample ID		SX_OB_20220 312_08_11_S S_Primary_AL S	SX_OB_20220 312_08_12_S S_Duplicate_ ALS	SX_OB_20220 312_12_15_S S_Primary_AL S	SX_OB_20220 312_15_55_S S_Primary_AL S	SX_OB_20220 312_16_02_S S_Triplicate_ ALS
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
						EM2204526-001 MU	EM2204526-002 MU	EM2204526-003 MU	EM2204526-004 MU	EM2204526-005 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	7.8 ±0.1	7.6 ±0.1	7.7 ±0.1	7.6 ±0.1	7.8 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	21 ±3	22 ±3	17 ±3	19 ±3	17 ±3
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	61 ±7	64 ±8	56 ±7	50 ±6	57 ±7
Lead	EG005T	5	mg/kg	----	6000	<5 ..	<5 ..	<5 ..	6 ±1.0	<5 ..
Molybdenum	EG005T	5	mg/kg	----	4000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	12000	161 ±16	168 ±16	150 ±15	124 ±12	152 ±15
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	98 ±11	110 ±12	98 ±11	82 ±9	100 ±11
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	120 ±30	140 ±30	120 ±30	140 ±30	<100 ..
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	312_08_11_S	312_08_12_S	312_12_15_S	312_15_55_S	312_16_02_S
						S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
						EM2204526-001 MU	EM2204526-002 MU	EM2204526-003 MU	EM2204526-004 MU	EM2204526-005 MU
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	Sample ID		SX_OB_20220 312_08_11_S S_Primary_AL S	SX_OB_20220 312_08_12_S S_Duplicate_ ALS	SX_OB_20220 312_12_15_S S_Primary_AL S	SX_OB_20220 312_15_55_S S_Primary_AL S	SX_OB_20220 312_16_02_S S_Triplicate_ ALS
				Guideline	Guideline	12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
				Lower Limit	Upper Limit	EM2204526-001 MU	EM2204526-002 MU	EM2204526-003 MU	EM2204526-004 MU	EM2204526-005 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.8 ±0.1	7.6 ±0.1	7.7 ±0.1	7.6 ±0.1	7.8 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	21 ±3	22 ±3	17 ±3	19 ±3	17 ±3
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	61 ±7	64 ±8	56 ±7	50 ±6	57 ±7
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	6 ±1.0	<5 ..
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	3000	161 ±16	168 ±16	150 ±15	124 ±12	152 ±15
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	98 ±11	110 ±12	98 ±11	82 ±9	100 ±11
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	120 ±30	140 ±30	120 ±30	140 ±30	<100 ..
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	312_08_11_S	312_08_12_S	312_12_15_S	312_15_55_S	312_16_02_S
						S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
						EM2204526-001 MU	EM2204526-002 MU	EM2204526-003 MU	EM2204526-004 MU	EM2204526-005 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		SX_OB_20220 312_08_11_S S_Primary_AL S	SX_OB_20220 312_08_12_S S_Duplicate_ ALS	SX_OB_20220 312_12_15_S S_Primary_AL S	SX_OB_20220 312_15_55_S S_Primary_AL S	SX_OB_20220 312_16_02_S S_Triplicate_ ALS
				Guideline	Guideline	12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
				Lower Limit	Upper Limit	EM2204526-001 MU	EM2204526-002 MU	EM2204526-003 MU	EM2204526-004 MU	EM2204526-005 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.8 ±0.1	7.6 ±0.1	7.7 ±0.1	7.6 ±0.1	7.8 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	21 ±3	22 ±3	17 ±3	19 ±3	17 ±3
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	61 ±7	64 ±8	56 ±7	50 ±6	57 ±7
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	6 ±1.0	<5 ..
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	<5 ..
Nickel	EG005T	5	mg/kg	----	60	161 ±16	168 ±16	150 ±15	124 ±12	152 ±15
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	98 ±11	110 ±12	98 ±11	82 ±9	100 ±11
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	120 ±30	140 ±30	120 ±30	140 ±30	<100 ..
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	312_08_11_S	312_08_12_S	312_12_15_S	312_15_55_S	312_16_02_S
						S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	12-Mar-2022 08:11	12-Mar-2022 08:11	12-Mar-2022 12:15	12-Mar-2022 15:55	12-Mar-2022 16:02
						EM2204526-001 MU	EM2204526-002 MU	EM2204526-003 MU	EM2204526-004 MU	EM2204526-005 MU
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

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 312_20_00_S S_Primary_AL S	SX_OB_20220 313_00_00_S S_Primary_AL S	SX_OB_20220 313_04_00_S S_Primary_AL S	SX_OB_20220 313_08_48_S S_Primary_AL S	SX_OB_20220 313_08_53_S S_Duplicate_ ALS
				Guideline	Guideline	12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
				Lower Limit	Upper Limit	EM2204526-006 MU	EM2204526-007 MU	EM2204526-008 MU	EM2204526-009 MU	EM2204526-010 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	7.6 ± 0.1	7.6 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	20 ± 3	21 ± 3	20 ± 3	19 ± 3	21 ± 3
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	57 ± 7	65 ± 8	56 ± 7	58 ± 7	64 ± 8
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	156 ± 15	158 ± 16	161 ± 16	151 ± 15	159 ± 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	103 ± 11	99 ± 11	102 ± 11	85 ± 10	93 ± 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	<1.0 ..	<1.0 ..	<1.0 ..	<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	<100 ..	120 ± 30	<100 ..	120 ± 30	120 ± 30
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 ..
EP075A: Phenolic Compounds (Non-halogenated)										



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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	312_20_00_S	313_00_00_S	313_04_00_S	313_08_48_S	313_08_53_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
						EM2204526-006 MU	EM2204526-007 MU	EM2204526-008 MU	EM2204526-009 MU	EM2204526-010 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
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	Sample ID		SX_OB_20220 312_20_00_S S_Primary_AL S	SX_OB_20220 313_00_00_S S_Primary_AL S	SX_OB_20220 313_04_00_S S_Primary_AL S	SX_OB_20220 313_08_48_S S_Primary_AL S	SX_OB_20220 313_08_53_S S_Duplicate_ ALS
				Guideline	Guideline	12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
				Lower Limit	Upper Limit	EM2204526-006 MU	EM2204526-007 MU	EM2204526-008 MU	EM2204526-009 MU	EM2204526-010 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	7.6 ± 0.1	7.6 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	20 ± 3	21 ± 3	20 ± 3	19 ± 3	21 ± 3
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	57 ± 7	65 ± 8	56 ± 7	58 ± 7	64 ± 8
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	156 ± 15	158 ± 16	161 ± 16	151 ± 15	159 ± 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	103 ± 11	99 ± 11	102 ± 11	85 ± 10	93 ± 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	<1.0 ..	<1.0 ..	<1.0 ..	<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	<100 ..	120 ± 30	<100 ..	120 ± 30	120 ± 30
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	312_20_00_S	313_00_00_S	313_04_00_S	313_08_48_S	313_08_53_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
						EM2204526-006 MU	EM2204526-007 MU	EM2204526-008 MU	EM2204526-009 MU	EM2204526-010 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		SX_OB_20220 312_20_00_S S_Primary_AL S	SX_OB_20220 313_00_00_S S_Primary_AL S	SX_OB_20220 313_04_00_S S_Primary_AL S	SX_OB_20220 313_08_48_S S_Primary_AL S	SX_OB_20220 313_08_53_S S_Duplicate_ ALS
				Guideline	Guideline	12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
				Lower Limit	Upper Limit	EM2204526-006 MU	EM2204526-007 MU	EM2204526-008 MU	EM2204526-009 MU	EM2204526-010 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	7.6 ± 0.1	7.6 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	20 ± 3	21 ± 3	20 ± 3	19 ± 3	21 ± 3
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	57 ± 7	65 ± 8	56 ± 7	58 ± 7	64 ± 8
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	156 ± 15	158 ± 16	161 ± 16	151 ± 15	159 ± 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	103 ± 11	99 ± 11	102 ± 11	85 ± 10	93 ± 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	<1.0 ..	<1.0 ..	<1.0 ..	<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	<100 ..	120 ± 30	<100 ..	120 ± 30	120 ± 30
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	312_20_00_S	313_00_00_S	313_04_00_S	313_08_48_S	313_08_53_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS
				Lower Limit	Upper Limit	12-Mar-2022 20:00	13-Mar-2022 00:00	13-Mar-2022 04:00	13-Mar-2022 08:48	13-Mar-2022 08:53
						EM2204526-006 MU	EM2204526-007 MU	EM2204526-008 MU	EM2204526-009 MU	EM2204526-010 MU
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

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 313_11_53_S S_Primary_AL S	SX_OB_20220 313_15_49_S S_Triplicate ALS	SX_OB_20220 313_15_52_S S_Primary_AL S	SX_OB_20220 313_20_04_S S_Primary_AL S	SX_OB_20220 314_00_06_S S_Primary_AL S
				Guideline	Guideline	13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
				Lower Limit	Upper Limit	EM2204526-011 MU	EM2204526-012 MU	EM2204526-013 MU	EM2204526-014 MU	EM2204526-015 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	7.6 ± 0.1	7.7 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	21 ± 3	20 ± 3	17 ± 3	22 ± 3	14 ± 2
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	58 ± 7	62 ± 8	56 ± 7	59 ± 7	58 ± 7
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	158 ± 16	172 ± 17	161 ± 16	163 ± 16	139 ± 14
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	102 ± 11	114 ± 12	97 ± 11	110 ± 12	83 ± 9
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	160 ± 40	120 ± 30	<100 ..	120 ± 30	130 ± 30
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 ..
EP075A: Phenolic Compounds (Non-halogenated)										



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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	313_11_53_S	313_15_49_S	313_15_52_S	313_20_04_S	314_00_06_S
						S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
						EM2204526-011 MU	EM2204526-012 MU	EM2204526-013 MU	EM2204526-014 MU	EM2204526-015 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
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	Sample ID		SX_OB_20220 313_11_53_S S_Primary_AL S	SX_OB_20220 313_15_49_S S_Triplicate ALS	SX_OB_20220 313_15_52_S S_Primary_AL S	SX_OB_20220 313_20_04_S S_Primary_AL S	SX_OB_20220 314_00_06_S S_Primary_AL S
				Guideline	Guideline	13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
				Lower Limit	Upper Limit	EM2204526-011 MU	EM2204526-012 MU	EM2204526-013 MU	EM2204526-014 MU	EM2204526-015 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	7.6 ± 0.1	7.7 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	21 ± 3	20 ± 3	17 ± 3	22 ± 3	14 ± 2
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	58 ± 7	62 ± 8	56 ± 7	59 ± 7	58 ± 7
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	158 ± 16	172 ± 17	161 ± 16	163 ± 16	139 ± 14
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	102 ± 11	114 ± 12	97 ± 11	110 ± 12	83 ± 9
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	160 ± 40	120 ± 30	<100 ..	120 ± 30	130 ± 30
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	313_11_53_S	313_15_49_S	313_15_52_S	313_20_04_S	314_00_06_S
						S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
						EM2204526-011 MU	EM2204526-012 MU	EM2204526-013 MU	EM2204526-014 MU	EM2204526-015 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		SX_OB_20220 313_11_53_S S_Primary_AL S	SX_OB_20220 313_15_49_S S_Triplicate ALS	SX_OB_20220 313_15_52_S S_Primary_AL S	SX_OB_20220 313_20_04_S S_Primary_AL S	SX_OB_20220 314_00_06_S S_Primary_AL S
				Guideline	Guideline	13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
				Lower Limit	Upper Limit	EM2204526-011 MU	EM2204526-012 MU	EM2204526-013 MU	EM2204526-014 MU	EM2204526-015 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	7.6 ±0.1	7.7 ±0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	21 ±3	20 ±3	17 ±3	22 ±3	14 ±2
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	58 ±7	62 ±8	56 ±7	59 ±7	58 ±7
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	158 ±16	172 ±17	161 ±16	163 ±16	139 ±14
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	102 ±11	114 ±12	97 ±11	110 ±12	83 ±9
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	160 ±40	120 ±30	<100 ..	120 ±30	130 ±30
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	313_11_53_S	313_15_49_S	313_15_52_S	313_20_04_S	314_00_06_S
						S_Primary_ALS	S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	13-Mar-2022 11:53	13-Mar-2022 15:49	13-Mar-2022 15:52	13-Mar-2022 20:04	14-Mar-2022 00:06
						EM2204526-011 MU	EM2204526-012 MU	EM2204526-013 MU	EM2204526-014 MU	EM2204526-015 MU
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

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_04_02_S	314_07_59_S	314_08_00_S	314_11_59_S	314_15_44_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
						EM2204526-016 MU	EM2204526-017 MU	EM2204526-018 MU	EM2204526-019 MU	EM2204526-020 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	8.4 ± 0.1	8.3 ± 0.1	8.1 ± 0.1	7.7 ± 0.1	7.6 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	19 ± 3	20 ± 3	20 ± 3	23 ± 3	19 ± 3
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	20000	63 ± 8	60 ± 7	66 ± 8	60 ± 7	51 ± 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	155 ± 15	151 ± 15	161 ± 16	162 ± 16	150 ± 15
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	94 ± 10	109 ± 12	107 ± 12	108 ± 12	105 ± 12
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	160 ± 40	160 ± 40	170 ± 40	140 ± 30	110 ± 30
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 ..
EP075A: Phenolic Compounds (Non-halogenated)										



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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_04_02_S	314_07_59_S	314_08_00_S	314_11_59_S	314_15_44_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
						EM2204526-016 MU	EM2204526-017 MU	EM2204526-018 MU	EM2204526-019 MU	EM2204526-020 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
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	Sample ID		SX_OB_20220 314_04_02_S S_Primary_AL S	SX_OB_20220 314_07_59_S S_Primary_AL S	SX_OB_20220 314_08_00_S S_Duplicate_ ALS	SX_OB_20220 314_11_59_S S_Primary_AL S	SX_OB_20220 314_15_44_S S_Triplicate_ ALS
				Guideline	Guideline	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
				Lower Limit	Upper Limit	EM2204526-016 MU	EM2204526-017 MU	EM2204526-018 MU	EM2204526-019 MU	EM2204526-020 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.4 ± 0.1	8.3 ± 0.1	8.1 ± 0.1	7.7 ± 0.1	7.6 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	19 ± 3	20 ± 3	20 ± 3	23 ± 3	19 ± 3
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	5000	63 ± 8	60 ± 7	66 ± 8	60 ± 7	51 ± 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	155 ± 15	151 ± 15	161 ± 16	162 ± 16	150 ± 15
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	94 ± 10	109 ± 12	107 ± 12	108 ± 12	105 ± 12
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	160 ± 40	160 ± 40	170 ± 40	140 ± 30	110 ± 30
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_04_02_S	314_07_59_S	314_08_00_S	314_11_59_S	314_15_44_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
						EM2204526-016 MU	EM2204526-017 MU	EM2204526-018 MU	EM2204526-019 MU	EM2204526-020 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		SX_OB_20220 314_04_02_S S_Primary_AL S	SX_OB_20220 314_07_59_S S_Primary_AL S	SX_OB_20220 314_08_00_S S_Duplicate_ ALS	SX_OB_20220 314_11_59_S S_Primary_AL S	SX_OB_20220 314_15_44_S S_Triplicate_ ALS
				Guideline	Guideline	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
				Lower Limit	Upper Limit	EM2204526-016 MU	EM2204526-017 MU	EM2204526-018 MU	EM2204526-019 MU	EM2204526-020 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	8.4 ± 0.1	8.3 ± 0.1	8.1 ± 0.1	7.7 ± 0.1	7.6 ± 0.1
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	19 ± 3	20 ± 3	20 ± 3	23 ± 3	19 ± 3
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	<1 ..
Copper	EG005T	5	mg/kg	----	100	63 ± 8	60 ± 7	66 ± 8	60 ± 7	51 ± 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	155 ± 15	151 ± 15	161 ± 16	162 ± 16	150 ± 15
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	94 ± 10	109 ± 12	107 ± 12	108 ± 12	105 ± 12
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	<1.0 ..	<1.0 ..	<1.0 ..	<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	160 ± 40	160 ± 40	170 ± 40	140 ± 30	110 ± 30
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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_04_02_S	314_07_59_S	314_08_00_S	314_11_59_S	314_15_44_S
						S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS	S_Triplicate_ALS
				Lower Limit	Upper Limit	14-Mar-2022 04:02	14-Mar-2022 07:59	14-Mar-2022 08:00	14-Mar-2022 11:59	14-Mar-2022 15:44
						EM2204526-016 MU	EM2204526-017 MU	EM2204526-018 MU	EM2204526-019 MU	EM2204526-020 MU
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

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_15_50_S	314_20_04_S	315_00_00_S	315_03_57_S	312_08_11_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 15:00
						EM2204526-021 MU	EM2204526-022 MU	EM2204526-023 MU	EM2204526-024 MU	EM2204526-025 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	2	12.5	7.7 ± 0.1	7.9 ± 0.1	7.7 ± 0.1	8.0 ± 0.1	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	2000	20 ± 3	21 ± 3	21 ± 3	21 ± 3	----
Cadmium	EG005T	1	mg/kg	----	400	<1 ..	<1 ..	<1 ..	<1 ..	----
Copper	EG005T	5	mg/kg	----	20000	59 ± 7	57 ± 7	57 ± 7	71 ± 9	----
Lead	EG005T	5	mg/kg	----	6000	<5 ..	<5 ..	<5 ..	<5 ..	----
Molybdenum	EG005T	5	mg/kg	----	4000	<5 ..	<5 ..	<5 ..	<5 ..	----
Nickel	EG005T	5	mg/kg	----	12000	157 ± 15	144 ± 14	150 ± 15	176 ± 17	----
Selenium	EG005T	5	mg/kg	----	200	<5 ..	<5 ..	<5 ..	<5 ..	----
Silver	EG005T	2	mg/kg	----	720	<2 ..	<2 ..	<2 ..	<2 ..	----
Zinc	EG005T	5	mg/kg	----	140000	94 ± 10	97 ± 11	105 ± 12	110 ± 12	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	300	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	2000	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	10000	<5 ..	<5 ..	<5 ..	<5 ..	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	40000	140 ± 40	110 ± 30	140 ± 30	160 ± 40	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	16	<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 ..	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	4.8	<0.50 ..	<0.50 ..	<0.50 ..	<0.50 ..	----
Hexachlorobutadiene	EP074-UT	0.50	mg/kg	----	11	<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 ..	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	320	<1.00 ..	<1.00 ..	<1.00 ..	<1.00 ..	----
EP075A: Phenolic Compounds (Non-halogenated)										



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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_15_50_S	314_20_04_S	315_00_00_S	315_03_57_S	312_08_11_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 15:00
						EM2204526-021 MU	EM2204526-022 MU	EM2204526-023 MU	EM2204526-024 MU	EM2204526-025 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	2200	<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 ..	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	400	<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 ..	----
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	4.8	<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 ..	----
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	16	<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 ..	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	2600	<20 ..	<20 ..	<20 ..	<20 ..	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	40000	<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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_15_50_S	314_20_04_S	315_00_00_S	315_03_57_S	312_08_11_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 15:00
						EM2204526-021 MU	EM2204526-022 MU	EM2204526-023 MU	EM2204526-024 MU	EM2204526-025 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.7 ± 0.1	7.9 ± 0.1	7.7 ± 0.1	8.0 ± 0.1	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	500	20 ± 3	21 ± 3	21 ± 3	21 ± 3	----
Cadmium	EG005T	1	mg/kg	----	100	<1 ..	<1 ..	<1 ..	<1 ..	----
Copper	EG005T	5	mg/kg	----	5000	59 ± 7	57 ± 7	57 ± 7	71 ± 9	----
Lead	EG005T	5	mg/kg	----	1500	<5 ..	<5 ..	<5 ..	<5 ..	----
Molybdenum	EG005T	5	mg/kg	----	1000	<5 ..	<5 ..	<5 ..	<5 ..	----
Nickel	EG005T	5	mg/kg	----	3000	157 ± 15	144 ± 14	150 ± 15	176 ± 17	----
Selenium	EG005T	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	----
Silver	EG005T	2	mg/kg	----	180	<2 ..	<2 ..	<2 ..	<2 ..	----
Tin	EG005T	10	mg/kg	----	500	<10 ..	<10 ..	<10 ..	<10 ..	----
Zinc	EG005T	5	mg/kg	----	35000	94 ± 10	97 ± 11	105 ± 12	110 ± 12	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	75	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	500	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	2500	<5 ..	<5 ..	<5 ..	<5 ..	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	10000	140 ± 40	110 ± 30	140 ± 30	160 ± 40	----
EP074A: Monocyclic Aromatic Hydrocarbons										
Benzene	EP074-UT	0.2	mg/kg	----	4	<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 ..	----
EP074I: Volatile Halogenated Compounds										
Vinyl chloride	EP074-UT	0.50	mg/kg	----	1.2	<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 ..	----
Sum of other chlorinated hydrocarbons	EP074-UT-SUM	0.50	mg/kg	----	10	<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 ..	----



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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_15_50_S	314_20_04_S	315_00_00_S	315_03_57_S	312_08_11_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 15:00
						EM2204526-021 MU	EM2204526-022 MU	EM2204526-023 MU	EM2204526-024 MU	EM2204526-025 MU
EP075A: Phenolic Compounds (Non-halogenated)										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	560	<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 ..	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	100	<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 ..	----
Sum of Aldrin + Dieldrin	EP075-EM-SUM	0.30	mg/kg	----	1.2	<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 ..	----
Chlordane	EP075-EM-SUM	0.10	mg/kg	----	4	<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 ..	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	650	<20 ..	<20 ..	<20 ..	<20 ..	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	10000	<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		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Lower Limit	Upper Limit	314_15_50_S	314_20_04_S	315_00_00_S	315_03_57_S	312_08_11_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Guideline	Guideline	14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 15:00
						EM2204526-021 MU	EM2204526-022 MU	EM2204526-023 MU	EM2204526-024 MU	EM2204526-025 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	4	9	7.7 ± 0.1	7.9 ± 0.1	7.7 ± 0.1	8.0 ± 0.1	----
EG005(ED093)T: Total Metals by ICP-AES										
Arsenic	EG005T	5	mg/kg	----	20	20 ± 3	21 ± 3	21 ± 3	21 ± 3	----
Cadmium	EG005T	1	mg/kg	----	3	<1 ..	<1 ..	<1 ..	<1 ..	----
Copper	EG005T	5	mg/kg	----	100	59 ± 7	57 ± 7	57 ± 7	71 ± 9	----
Lead	EG005T	5	mg/kg	----	300	<5 ..	<5 ..	<5 ..	<5 ..	----
Molybdenum	EG005T	5	mg/kg	----	40	<5 ..	<5 ..	<5 ..	<5 ..	----
Nickel	EG005T	5	mg/kg	----	60	157 ± 15	144 ± 14	150 ± 15	176 ± 17	----
Selenium	EG005T	5	mg/kg	----	10	<5 ..	<5 ..	<5 ..	<5 ..	----
Silver	EG005T	2	mg/kg	----	10	<2 ..	<2 ..	<2 ..	<2 ..	----
Tin	EG005T	10	mg/kg	----	50	<10 ..	<10 ..	<10 ..	<10 ..	----
Zinc	EG005T	5	mg/kg	----	200	94 ± 10	97 ± 11	105 ± 12	110 ± 12	----
EG035T: Total Recoverable Mercury by FIMS										
Mercury	EG035T	0.1	mg/kg	----	1	<0.1 ..	<0.1 ..	<0.1 ..	<0.1 ..	----
EG048: Hexavalent Chromium (Alkaline Digest)										
Hexavalent Chromium	EG048G	1.0	mg/kg	----	1	<1.0 ..	<1.0 ..	<1.0 ..	<1.0 ..	----
EK026SF: Total CN by Segmented Flow Analyser										
Total Cyanide	EK026SF	5	mg/kg	----	50	<5 ..	<5 ..	<5 ..	<5 ..	----
EK040T: Fluoride Total										
Fluoride	EK040T	100	mg/kg	----	450	140 ± 40	110 ± 30	140 ± 30	160 ± 40	----
EP066: Polychlorinated Biphenyls (PCB)										
Total Polychlorinated biphenyls	EP066-EM	0.1	mg/kg	----	2	<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 ..	----
Sum of monocyclic aromatic hydrocarbons	EP074-UT-SUM	0.5	mg/kg	----	7	<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 ..	----
EP075A: Phenolic Compounds (Halogenated)										
Sum of Phenols (halogenated)	EP075-EM-SUM	1.00	mg/kg	----	1	<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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	314_15_50_S	314_20_04_S	315_00_00_S	315_03_57_S	312_08_11_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	14-Mar-2022 15:50	14-Mar-2022 20:04	15-Mar-2022 00:00	15-Mar-2022 03:57	12-Mar-2022 15:00
						EM2204526-021 MU	EM2204526-022 MU	EM2204526-023 MU	EM2204526-024 MU	EM2204526-025 MU
EP075A: Phenolic Compounds (Non-halogenated) - Continued										
Sum of Phenols (non-halogenated)	EP075-EM-SUM	20	mg/kg	----	60	<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 ..	----
Sum of polycyclic aromatic hydrocarbons	EP075-EM-SUM	0.5	mg/kg	----	20	<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 ..	----
EP080/071: Total Petroleum Hydrocarbons										
C6 - C9 Fraction	EP074-UT	20	mg/kg	----	100	<20 ..	<20 ..	<20 ..	<20 ..	----
C10 - C36 Fraction (sum)	EP071-EM	50	mg/kg	----	1000	<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

Compound	Method	LOR	Unit	Sample ID		SX_OB_20220 312_08_12_S S_Duplicate_ ALS	SX_OB_20220 312_12_15_S S_Primary_AL S	SX_OB_20220 312_15_55_S S_Primary_AL S	SX_OB_20220 312_16_02_S S_Triplicate_ ALS	SX_OB_20220 312_20_00_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						12-Mar-2022 15:00	12-Mar-2022 15:00	12-Mar-2022 15:00	12-Mar-2022 15:00	12-Mar-2022 15:00
						EM2204526-026 MU	EM2204526-027 MU	EM2204526-028 MU	EM2204526-029 MU	EM2204526-030 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): 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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	313_00_00_S	313_04_00_S	313_08_48_S	313_08_53_S	313_11_53_S
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Duplicate_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	13-Mar-2022 15:00	13-Mar-2022 15:00	13-Mar-2022 15:00	13-Mar-2022 15:00	13-Mar-2022 15:00
						EM2204526-031 MU	EM2204526-032 MU	EM2204526-033 MU	EM2204526-034 MU	EM2204526-035 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): 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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220	SX_OB_20220
				Guideline	Guideline	313_15_49_S	313_15_52_S	313_20_04_S	314_00_06_S	314_04_02_S
						S_Triplicate_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS	S_Primary_ALS
				Lower Limit	Upper Limit	13-Mar-2022 15:00	13-Mar-2022 15:00	13-Mar-2022 15:00	14-Mar-2022 15:00	14-Mar-2022 15:00
						EM2204526-036 MU	EM2204526-037 MU	EM2204526-038 MU	EM2204526-039 MU	EM2204526-040 MU
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): 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	Sample ID		SX_OB_20220 314_07_59_S S_Primary_AL S	SX_OB_20220 314_08_00_S S_Duplicate_ ALS	SX_OB_20220 314_11_59_S S_Primary_AL S	SX_OB_20220 314_15_44_S S_Triplicate_ ALS	SX_OB_20220 314_15_50_S S_Primary_AL S
				Guideline	Guideline					
				Lower Limit	Upper Limit					
						14-Mar-2022 15:00	14-Mar-2022 15:00	14-Mar-2022 15:00	14-Mar-2022 15:00	14-Mar-2022 15:00
						EM2204526-041 MU	EM2204526-042 MU	EM2204526-043 MU	EM2204526-044 MU	EM2204526-045 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	Sample ID		SX_OB_20220	SX_OB_20220	SX_OB_20220	----	----
				Guideline	Guideline	314_20_04_S	315_00_00_S	315_03_57_S		
						S_Primary_ALS	S_Primary_ALS	S_Primary_ALS		
				Lower Limit	Upper Limit	14-Mar-2022 15:00	15-Mar-2022 15:00	15-Mar-2022 15:00		
						EM2204526-046 MU	EM2204526-047 MU	EM2204526-048 MU		
EA001: pH in soil using 0.01M CaCl extract										
pH (CaCl2)	EA001	0.1	pH Unit	----	----	----	----	----	----	----
EG005(ED093T): 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										

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Sample Receipt Advice

Company name: Agon Environmental Pty Ltd - VIC
Contact name: Agon Lab Reports (Spoil Project)
Project name: 20220315043631-Eurofin-21 solid_00
Project ID: JC0927
Turnaround time: 5 Day
Date/Time received: Mar 15, 2022 1:00 PM
Eurofins reference: 871152

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✗ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Michael Cassidy on phone : +61 3 8564 5000 or by email: MichaelCassidy@eurofins.com

Results will be delivered electronically via email to Agon Lab Reports (Spoil Project) - labreports.TST@agonenviro.com.au.

Note: A copy of these results will also be delivered to the general Agon Environmental Pty Ltd - VIC email address.

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EM2204526	Page	: 1 of 26
Client	: AGON ENVIRONMENTAL PTY LTD	Laboratory	: Environmental Division Melbourne
Contact	: CRAIG TRIMBUR	Telephone	: +6138549 9600
Project	: JC0927	Date Samples Received	: 15-Mar-2022
Site	: 20220315041835-ALS-21 solid_00	Issue Date	: 22-Mar-2022
Sampler	: EP RISK/AGON	No. of samples received	: 48
Order number	: ----	No. of samples analysed	: 48

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

Outliers : Analysis Holding Time Compliance

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

Outliers : Frequency of Quality Control Samples

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



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP075I: Organochlorine Pesticides	QC-4232386-001	----	4.4'-DDT	50-29-3	77.3 %	77.7-133%	Recovery less than lower control limit
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	EM2204243--020	Anonymous	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	42.0 %	68.0-136%	Recovery less than lower data quality objective
EP231C: Perfluoroalkyl Sulfonamides	EM2204243--020	Anonymous	N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	134 %	70.0-130%	Recovery greater than upper data quality objective
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2204243--020	Anonymous	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	56.7 %	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	EM2204526--026	SX_OB_20220312_08_12_SS	Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	47.8 %	65.0-144%	Recovery less than lower data quality objective
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EM2204526--026	SX_OB_20220312_08_12_SS	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	43.7 %	70.0-130%	Recovery less than lower data quality objective

Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

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

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation



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_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	19-Mar-2022	✓	18-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	20-Mar-2022	✓	18-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	21-Mar-2022	21-Mar-2022	✓	21-Mar-2022	21-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA001) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	21-Mar-2022	22-Mar-2022	✓	21-Mar-2022	21-Mar-2022	✓
EA055: Moisture Content (Dried @ 105-110°C)								
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	----	----	----	18-Mar-2022	26-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	----	----	----	18-Mar-2022	27-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	----	----	----	18-Mar-2022	28-Mar-2022	✓
Soil Glass Jar - Unpreserved (EA055) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	----	----	----	18-Mar-2022	29-Mar-2022	✓



Matrix: SOIL

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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_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	19-Mar-2022	08-Sep-2022	✓	19-Mar-2022	08-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	19-Mar-2022	09-Sep-2022	✓	19-Mar-2022	09-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	19-Mar-2022	10-Sep-2022	✓	19-Mar-2022	10-Sep-2022	✓
Soil Glass Jar - Unpreserved (EG005T) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	19-Mar-2022	11-Sep-2022	✓	19-Mar-2022	11-Sep-2022	✓
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	19-Mar-2022	09-Apr-2022	✓	21-Mar-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	19-Mar-2022	10-Apr-2022	✓	21-Mar-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	19-Mar-2022	11-Apr-2022	✓	21-Mar-2022	11-Apr-2022	✓
Soil Glass Jar - Unpreserved (EG035T) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	19-Mar-2022	12-Apr-2022	✓	21-Mar-2022	12-Apr-2022	✓



Matrix: SOIL

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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_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	09-Apr-2022	✓	19-Mar-2022	25-Mar-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	10-Apr-2022	✓	19-Mar-2022	25-Mar-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	11-Apr-2022	✓	19-Mar-2022	25-Mar-2022	✓
Soil Glass Jar - Unpreserved (EG048G) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	12-Apr-2022	✓	19-Mar-2022	25-Mar-2022	✓
EK026SF: Total CN by Segmented Flow Analyser								
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	19-Mar-2022	01-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	19-Mar-2022	01-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	19-Mar-2022	01-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK026SF) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	19-Mar-2022	01-Apr-2022	✓



Matrix: SOIL

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Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EK040T: Fluoride Total								
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	09-Apr-2022	✓	22-Mar-2022	09-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	10-Apr-2022	✓	22-Mar-2022	10-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	11-Apr-2022	✓	22-Mar-2022	11-Apr-2022	✓
Soil Glass Jar - Unpreserved (EK040T) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	12-Apr-2022	✓	22-Mar-2022	12-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_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	17-Mar-2022	08-Sep-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	09-Sep-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	10-Sep-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	11-Sep-2022	✓	----	----	----



Matrix: SOIL

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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-DIa-P) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	17-Mar-2022	08-Sep-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	09-Sep-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	10-Sep-2022	✓	----	----	----
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60-DIa-P) SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	11-Sep-2022	✓	----	----	----
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP066-EM) SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓



Matrix: SOIL

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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_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	16-Mar-2022	19-Mar-2022	✓	17-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS	13-Mar-2022	16-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	21-Mar-2022	✓	17-Mar-2022	21-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	22-Mar-2022	✓	17-Mar-2022	22-Mar-2022	✓
EP074H: Naphthalene								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	16-Mar-2022	19-Mar-2022	✓	17-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS	13-Mar-2022	16-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	21-Mar-2022	✓	17-Mar-2022	21-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	22-Mar-2022	✓	17-Mar-2022	22-Mar-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	
EP074I: Volatile Halogenated Compounds								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	16-Mar-2022	19-Mar-2022	✓	17-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS	13-Mar-2022	16-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	21-Mar-2022	✓	17-Mar-2022	21-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	22-Mar-2022	✓	17-Mar-2022	22-Mar-2022	✓
EP075A: Phenolic Compounds (Halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓



Matrix: SOIL

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

Method Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis			
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EP075A: Phenolic Compounds (Non-halogenated)								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
EP075B: Polynuclear Aromatic Hydrocarbons								
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP075-EM) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	18-Mar-2022	27-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	
EP075I: Organochlorine Pesticides								
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✔	18-Mar-2022	27-Apr-2022	✔
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✔	18-Mar-2022	27-Apr-2022	✔
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✔	18-Mar-2022	27-Apr-2022	✔
Soil Glass Jar - Unpreserved (EP075-EM)								
SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✔	18-Mar-2022	27-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	
EP080/071: Total Petroleum Hydrocarbons								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	16-Mar-2022	19-Mar-2022	✓	17-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS	13-Mar-2022	16-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	21-Mar-2022	✓	17-Mar-2022	21-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	22-Mar-2022	✓	17-Mar-2022	22-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	18-Mar-2022	27-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	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	16-Mar-2022	19-Mar-2022	✓	17-Mar-2022	19-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	26-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS	13-Mar-2022	16-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	17-Mar-2022	20-Mar-2022	✓	17-Mar-2022	20-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	27-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	17-Mar-2022	21-Mar-2022	✓	17-Mar-2022	21-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	28-Mar-2022	✓	18-Mar-2022	27-Apr-2022	✓
Soil Glass Jar - Unpreserved (EP074-UT) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	17-Mar-2022	22-Mar-2022	✓	17-Mar-2022	22-Mar-2022	✓
Soil Glass Jar - Unpreserved (EP071-EM) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	29-Mar-2022	✓	18-Mar-2022	27-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	
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	08-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	09-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	10-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	11-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	08-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	09-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	10-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	11-Sep-2022	✓	18-Mar-2022	27-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	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	08-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	09-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	10-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	11-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	08-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	09-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	10-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	11-Sep-2022	✓	18-Mar-2022	27-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	
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS	12-Mar-2022	18-Mar-2022	08-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS,	SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS	13-Mar-2022	18-Mar-2022	09-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS,	SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS	14-Mar-2022	18-Mar-2022	10-Sep-2022	✓	18-Mar-2022	27-Apr-2022	✓
HDPE Soil Jar (EP231X) SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220315_03_57_SS_Primary_ALS	15-Mar-2022	18-Mar-2022	11-Sep-2022	✓	18-Mar-2022	27-Apr-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)								
SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS	17-Mar-2022	19-Mar-2022	13-Sep-2022	✓	19-Mar-2022	13-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	17-Mar-2022	20-Mar-2022	13-Sep-2022	✓	20-Mar-2022	13-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_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS	17-Mar-2022	19-Mar-2022	13-Sep-2022	✓	19-Mar-2022	13-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	17-Mar-2022	20-Mar-2022	13-Sep-2022	✓	20-Mar-2022	13-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	
EP231C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X)								
SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS	17-Mar-2022	19-Mar-2022	13-Sep-2022	✓	19-Mar-2022	13-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	17-Mar-2022	20-Mar-2022	13-Sep-2022	✓	20-Mar-2022	13-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)								
SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS	17-Mar-2022	19-Mar-2022	13-Sep-2022	✓	19-Mar-2022	13-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	17-Mar-2022	20-Mar-2022	13-Sep-2022	✓	20-Mar-2022	13-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	
EP231P: PFAS Sums								
HDPE (no PTFE) (EP231X)								
SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS,	SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS	17-Mar-2022	19-Mar-2022	13-Sep-2022	✓	19-Mar-2022	13-Sep-2022	✓
HDPE (no PTFE) (EP231X)								
SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS, SX_OB_20220312_08_11_SS_Primary_ALS, SX_OB_20220312_12_15_SS_Primary_ALS, SX_OB_20220312_16_02_SS_Triplicate_ALS, SX_OB_20220313_00_00_SS_Primary_ALS, SX_OB_20220313_08_48_SS_Primary_ALS, SX_OB_20220313_11_53_SS_Primary_ALS, SX_OB_20220313_15_52_SS_Primary_ALS, SX_OB_20220314_00_06_SS_Primary_ALS, SX_OB_20220314_07_59_SS_Primary_ALS, SX_OB_20220314_11_59_SS_Primary_ALS, SX_OB_20220314_15_50_SS_Primary_ALS, SX_OB_20220315_00_00_SS_Primary_ALS,	SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS, SX_OB_20220312_08_12_SS_Duplicate_ALS, SX_OB_20220312_15_55_SS_Primary_ALS, SX_OB_20220312_20_00_SS_Primary_ALS, SX_OB_20220313_04_00_SS_Primary_ALS, SX_OB_20220313_08_53_SS_Duplicate_ALS, SX_OB_20220313_15_49_SS_Triplicate_ALS, SX_OB_20220313_20_04_SS_Primary_ALS, SX_OB_20220314_04_02_SS_Primary_ALS, SX_OB_20220314_08_00_SS_Duplicate_ALS, SX_OB_20220314_15_44_SS_Triplicate_ALS, SX_OB_20220314_20_04_SS_Primary_ALS, SX_OB_20220315_03_57_SS_Primary_ALS	17-Mar-2022	20-Mar-2022	13-Sep-2022	✓	20-Mar-2022	13-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	Method	Count		Rate (%)			Quality Control Specification
		QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	3	24	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Moisture Content	EA055	3	24	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	3	28	10.71	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	3	24	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	39	10.26	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	5	40	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071-EM	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
pH in soil using a 0.01M CaCl2 extract	EA001	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	28	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	39	5.13	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	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Deionised Water Leach - Plastic Leaching Vessel	EN60-DIa-P	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	28	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	39	5.13	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	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard



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

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reular	Actual	Expected	Evaluation	
Analytical Methods							
Matrix Spikes (MS)							
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	4	24	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
PCB - VIC EPA 448.3 Screen	EP066-EM	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Semivolatile Organic Compounds - Waste Classification	EP075-EM	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Cyanide by Segmented Flow Analyser	EK026SF	2	28	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Fluoride	EK040T	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	39	5.13	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	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds - Ultra-trace	EP074-UT	2	24	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard

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

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
		QC	Reular	Actual	Expected	Evaluation	
Analytical Methods							
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	6	48	12.50	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	48	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	48	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	4	48	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard



Brief Method Summaries

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

Analytical Methods	Method	Matrix	Method Descriptions
pH in soil using a 0.01M CaCl ₂ extract	EA001	SOIL	In house: Referenced to Rayment and Lyons 4B3 (mod.) or 4B4 (mod.) 10 g of soil is mixed with 50 mL of 0.01M CaCl ₂ and tumbled end over end for 1 hour. pH is measured from the continuous suspension. This method is compliant with NEPM Schedule B(3).
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3)
Hexavalent Chromium by Alkaline Digestion and DA Finish	EG048G	SOIL	In house: Referenced to USEPA SW846, Method 3060. Hexavalent chromium is extracted by alkaline digestion. The digest is determined by photometrically by automatic discrete analyser, following pH adjustment. The instrument uses colour development using dephenylcarbazide. Each run of samples is measured against a five-point calibration curve. This method is compliant with NEPM Schedule B(3)
Total Cyanide by Segmented Flow Analyser	EK026SF	SOIL	In house: Referenced to APHA 4500-CN C / ASTM D7511 / ISO 14403. Caustic leachates of soil samples are introduced into an automated segmented flow analyser. Complex bound cyanide is decomposed in a continuously flowing stream, at a pH of 3.8, by the effect of UV light. A UV-B lamp (312 nm) and a decomposition spiral of borosilicate glass are used to filter out UV light with a wavelength of less than 290 nm thus preventing the conversion of thiocyanate into cyanide. The hydrogen cyanide present at a pH of 3.8 is separated by gas dialysis. The hydrogen cyanide is then determined photometrically, based on the reaction of cyanide with chloramine-T to form cyanogen chloride. This then reacts with 4-pyridine carboxylic acid and 1,3-dimethylbarbituric acid to give a red colour which is measured at 600 nm. This method is compliant with NEPM Schedule B(3).
Total Fluoride	EK040T	SOIL	(In-house) Total fluoride is determined by ion specific electrode (ISE) in a solution obtained after a Sodium Carbonate / Potassium Carbonate fusion dissolution.
PCB - VIC EPA 448.3 Screen	EP066-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071-EM	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds - Ultra-trace	EP074-UT	SOIL	In house: Referenced to USEPA SW 846 - 8260 Extracts are analysed by Purge and Trap, Capillary GC/MS in partial SIM/Scan mode. Quantification is by comparison against an established multi-point calibration curves. This method is compliant with NEPM Schedule B(3).



Analytical Methods	Method	Matrix	Method Descriptions
Volatile Organic Compounds - Ultra-trace - Summations	EP074-UT-SUM	SOIL	Summation of MAHs and VHCs
Semivolatile Organic Compounds - Waste Classification	EP075-EM	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
SVOC - Waste Classification (Sums)	EP075-EM-SUM	SOIL	Summations for EP075 (EM variation)
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of fresh and saline waters by Solid Phase Extraction (SPE) followed by LC-Electrospray-MS-MS, Negative Mode using MRM and internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

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

Page : 26 of 26
Work Order : EM2204526
Client : AGON ENVIRONMENTAL PTY LTD
Project : JC0927



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

CHAIN OF CUSTODY DOCUMENTATION

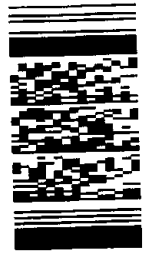
CLIENT: Agon Environmental
 ADDRESS/OFFICE: Melbourne
 PROJECT MANAGER (PM): Craig Trimbur
 PROJECT ID: JC0927
 P.O. NO.:
 QUOTE NO.: ME-150-19 WGTP
 RESULTS REQUIRED (Date):
 ANALYSIS REQUIRED INCLUDING SUITES (note - suite codes must be listed to attract suite prices)

SAMPLER: TRISKIAGO
 MOBILE 1: +61 400 826 907 (Craig Trimbur)
 MOBILE 2: +61 490 411 004 (David Lawson)
 EMAIL REPORT TO: Labreports.TSI@agonenviro.com.au
 motherhublabresults.1@wstgtp.com.au
 EMAIL INVOICE TO: (if different to report) Labreports.TSI@agonenviro.com.au
 aconenviro.com.au
 aconenvironmental@esdat.com.au

Environmental Laboratory Services Pty Ltd
 Australian Laboratory Services Pty Ltd

ALS ID	SAMPLE ID	MATRIX	DATE	Time	CONTAINER INFORMATION		Spill Sample Prep	P16 plus C	PFAS 28 Extended suite	ASLP PFAS - Extended Suite (Lab to determine pH)	DI Leachate PFAS - Extended Suite	Notes:
					Type / Code	Total bottles						
25	SX_OB_20220312_08_11_SS_Primary_ALS	S	12/03/2022	8:11	Bucket	1	X	X	X	X		
26	SX_OB_20220312_09_12_SS_Duplicate_ALS	S	12/03/2022	8:11	Bucket	1	X	X	X	X		
27	SX_OB_20220312_12_15_SS_Primary_ALS	S	12/03/2022	12:15	Bucket	1	X	X	X	X		
28	SX_OB_20220312_15_55_SS_Primary_ALS	S	12/03/2022	15:55	Bucket	1	X	X	X	X		
29	SX_OB_20220312_16_02_SS_Triplicate_ALS	S	12/03/2022	16:02	Bucket	1	X	X	X	X		
30	SX_OB_20220312_20_00_SS_Primary_ALS	S	12/03/2022	20:00	Bucket	1	X	X	X	X		
31	SX_OB_20220313_00_00_SS_Primary_ALS	S	13/03/2022	00:00	Bucket	1	X	X	X	X		
32	SX_OB_20220313_04_00_SS_Primary_ALS	S	13/03/2022	4:00	Bucket	1	X	X	X	X		
33	SX_OB_20220313_08_46_SS_Primary_ALS	S	13/03/2022	8:48	Bucket	1	X	X	X	X		
34	SX_OB_20220313_08_53_SS_Duplicate_ALS	S	13/03/2022	8:53	Bucket	1	X	X	X	X		
35	SX_OB_20220313_11_53_SS_Primary_ALS	S	13/03/2022	11:53	Bucket	1	X	X	X	X		
36	SX_OB_20220313_15_49_SS_Triplicate_ALS	S	13/03/2022	15:49	Bucket	1	X	X	X	X		
37	SX_OB_20220313_15_52_SS_Primary_ALS	S	13/03/2022	15:52	Bucket	1	X	X	X	X		
38	SX_OB_20220313_20_04_SS_Primary_ALS	S	13/03/2022	20:04	Bucket	1	X	X	X	X		
39	SX_OB_20220314_00_06_SS_Primary_ALS	S	14/03/2022	00:06	Bucket	1	X	X	X	X		
40	SX_OB_20220314_04_02_SS_Primary_ALS	S	14/03/2022	04:02	Bucket	1	X	X	X	X		
41	SX_OB_20220314_07_58_SS_Primary_ALS	S	14/03/2022	7:59	Bucket	1	X	X	X	X		
42	SX_OB_20220314_08_00_SS_Duplicate_ALS	S	14/03/2022	8:00	Bucket	1	X	X	X	X		
43	SX_OB_20220314_11_59_SS_Primary_ALS	S	14/03/2022	11:59	Bucket	1	X	X	X	X		
44	SX_OB_20220314_15_44_SS_Triplicate_ALS	S	14/03/2022	15:44	Bucket	1	X	X	X	X		
45	SX_OB_20220314_15_50_SS_Primary_ALS	S	14/03/2022	15:50	Bucket	1	X	X	X	X		
46	SX_OB_20220314_20_04_SS_Primary_ALS	S	14/03/2022	20:04	Bucket	1	X	X	X	X		
47	SX_OB_20220315_00_00_SS_Primary_ALS	S	15/03/2022	0:00	Bucket	1	X	X	X	X		
48	SX_OB_20220315_03_57_SS_Primary_ALS	S	15/03/2022	3:57	Bucket	1	X	X	X	X		

Environmental Division
 Melbourne
 Work Order Reference
EM2204526



Telephone : - 61-8-8549 9600

RECEIVED BY: *MANU* Name: *MANU* Date: *15/3/22*
 Cor' Note No:
 Time:
 Date: *12:00* Transport Co:
 Time:

RELINQUISHED BY: *EP Risk* Name: *Hannah Kennedy* Date: *15/3/22*
 Of: Time:
 Date: Time:

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

CHAIN OF CUSTODY DOCUMENTATION

CLIENT: Agon Environmental
 ADDRESS / OFFICE: Melbourne
 PROJECT MANAGER (PM): Craig Trimbur
 PROJECT ID: JC0927
 P.O. NO.:
 SITE: 20220315041835-ALS-21 solid_00
 RESULTS REQUIRED (Date):
 QUOTE NO.: ME-150-19 WGTP

SAMPLER: BASK/AGC
 MOBILE 1: +61 400 826 907 (Craig Trimbur)
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 EMAIL REPORT TO: Labreports.TS1@agonenviro.com.au agopenvironmental@esdat.com.au
 motherhublabresults1@wgtp.com.au
 EMAIL INVOICE TO: (if different to report) Labreports.TS1@agonenviro.com.au agopenvironmental@esdat.com.au

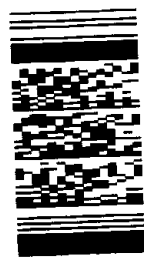
ANALYSIS REQUIRED INCLUDING SUITES (note - suite codes must be listed to attract suite prices)

ALS ID	SAMPLE INFORMATION (Note: S = Soil, VS=Water)		CONTAINER INFORMATION		Spot Sample Prep	PFS 28 Extended suite	ASLP PFS - Extended Suite (Lab to determine pH)	DI Leachate PFS - Extended Suite	Notes:
	SAMPLE ID	MATRIX	DATE	Time					
25	SX_OB_20220312_08_11_SS_Primary_ALS	S	12/03/2022	8:11	Bucket	1	X	X	
26	SX_OB_20220312_08_12_SS_Duplicate_ALS	S	12/03/2022	8:11	Bucket	1	X	X	
27	SX_OB_20220312_12_14_SS_Primary_ALS	S	12/03/2022	12:15	Bucket	1	X	X	
28	SX_OB_20220312_15_55_SS_Primary_ALS	S	12/03/2022	15:55	Bucket	1	X	X	
29	SX_OB_20220312_16_02_SS_Triplicate_ALS	S	12/03/2022	16:02	Bucket	1	X	X	
30	SX_OB_20220312_20_00_SS_Primary_ALS	S	12/03/2022	20:00	Bucket	1	X	X	
31	SX_OB_20220313_00_00_SS_Primary_ALS	S	13/03/2022	00:00	Bucket	1	X	X	
32	SX_OB_20220313_04_00_SS_Primary_ALS	S	13/03/2022	4:00	Bucket	1	X	X	
33	SX_OB_20220313_08_48_SS_Primary_ALS	S	13/03/2022	8:48	Bucket	1	X	X	
34	SX_OB_20220313_08_53_SS_Duplicate_ALS	S	13/03/2022	8:53	Bucket	1	X	X	
35	SX_OB_20220313_11_53_SS_Primary_ALS	S	13/03/2022	11:53	Bucket	1	X	X	
36	SX_OB_20220313_15_49_SS_Triplicate_ALS	S	13/03/2022	15:49	Bucket	1	X	X	
37	SX_OB_20220313_15_52_SS_Primary_ALS	S	13/03/2022	15:52	Bucket	1	X	X	
38	SX_OB_20220313_20_04_SS_Primary_ALS	S	13/03/2022	20:04	Bucket	1	X	X	
39	SX_OB_20220314_00_06_SS_Primary_ALS	S	14/03/2022	00:06	Bucket	1	X	X	
40	SX_OB_20220314_04_02_SS_Primary_ALS	S	14/03/2022	04:02	Bucket	1	X	X	
41	SX_OB_20220314_07_59_SS_Primary_ALS	S	14/03/2022	7:59	Bucket	1	X	X	
42	SX_OB_20220314_08_00_SS_Duplicate_ALS	S	14/03/2022	8:00	Bucket	1	X	X	
43	SX_OB_20220314_11_59_SS_Primary_ALS	S	14/03/2022	11:59	Bucket	1	X	X	
44	SX_OB_20220314_15_44_SS_Triplicate_ALS	S	14/03/2022	15:44	Bucket	1	X	X	
45	SX_OB_20220314_16_00_SS_Primary_ALS	S	14/03/2022	15:50	Bucket	1	X	X	
46	SX_OB_20220314_20_04_SS_Primary_ALS	S	14/03/2022	20:04	Bucket	1	X	X	
47	SX_OB_20220315_00_00_SS_Primary_ALS	S	15/03/2022	0:00	Bucket	1	X	X	
48	SX_OB_20220315_03_57_SS_Primary_ALS	S	15/03/2022	3:57	Bucket	1	X	X	

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

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Environmental Division
 Melbourne
 Work Order Reference
EM2204526



Telephone : - 61-3-8549 9600

RELINQUISHED BY: *Hannah Kennedy*
 Name: Hannah Kennedy Date: 15/3/22
 Of: EP Risk
 RECEIVED BY: *AM*
 Name: AM Date: 15/3
 Of: AM
 Cont' Note No.:
 Transport Co.:
 Time: 12:00

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