

November 30, 2022

AECOM Reference
60686763

Mr. Christopher Kubacki, PE
Milwaukee County Parks
9480 W. Watertown Plank Rd.
Milwaukee, WI 53226

**Sediment Sampling Results, Oak Creek Mill Pond
Milwaukee County Parks, Milwaukee County, Wisconsin**

Dear Mr. Kubacki;

AECOM Technical Services, Inc. (AECOM) is providing the results of the sediment sampling conducted at Oak Creek Mill Pond, Milwaukee County Parks, Milwaukee County, Wisconsin in general conformance with our proposal submitted by e-mail dated March 1, 2022, and revised on May 4, 2022. Sediment samples were collected on July 20, 2022.

Background

Historically, the Mill Pond's primary function was to provide power to a mill to grind corn, wheat, and barley to create flour until it was decommissioned in the early 1930s. The pond was also a popular local recreational destination with year-round outdoor activities including ice skating and rowboats.

The Oak Creek Mill Pond is located within the Oak Creek Watershed and is entirely within the boundary of Milwaukee County, Wisconsin. The Oak Creek originates in the City of Franklin, meandering through the Oak Creek Parkway in South Milwaukee with flows from the North Branch and the Mitchell Field Drainage Ditch. The Creek ultimately drains into Lake Michigan. The Southeastern Wisconsin Regional Planning Commission (SEWRPC) published the Restoration Plan for the Oak Creek Watershed in December 2021.

AECOM was contracted to provide sediment sampling and reporting of results from the Oak Creek Mill Pond as an initial step to evaluate the alternatives for Mill Pond presented in SEWRPC's *Restoration Plan for the Oak Creek Watershed*.

According to information provided by Milwaukee County Parks, the Oak Creek Mill Pond was dredged in the last 15-20 years. Sampling locations to characterize accumulated sediment upstream of the dam at the Oak Creek Mill Pond are depicted in Figure 1.

Scope of Work

Five sediment borings (designated SB-01 through SB-05) were advanced to a depth of 6 to 12 feet below the sediment surface with a vibracore direct push sampler using 1 ¾ -inch diameter acetate liners inside a drive rod to collect continuous sediment samples. New acetate liners were used for each sample interval and the drive rods were deconned between sampling locations. The sediment samples were transported to the shore of the Mill Pond, extracted from the liner, photographed and described with respect to the soil type, grain size distribution, color (or discoloration), odor, and moisture content. A photolog is included in Appendix A. Field observations from the borings were recorded on soil (sediments) boring logs and included in Appendix B.

One composite sediment sample (SB-01) was collected from the 12-foot boring located at the sluice gate repair location adjacent to the dam. The composite sample was submitted to the laboratory for analysis of waste characterization parameters. Sediment samples from the remaining borings were collected in two-foot increments (0-2 feet, 2-4 feet, 4-6 feet, etc.), except at the SB-01 location where sediment was sampled from 0-6 feet and 6-12 feet. The sediment borings were surveyed using standard GPS surveying equipment.

Sediment samples for laboratory analysis were submitted to CT Laboratories (CT), a Wisconsin-certified laboratory. CT analyzed sediment samples for nutrients (ammonia, nitrogen, nitrate, total Kjeldahl nitrogen, total phosphorus), metals (arsenic, barium, cadmium, copper, iron, lead, manganese, mercury, nickel, selenium, and zinc), polychlorinated biphenyls (PCBs), pesticides (chlordane, dieldrin, endrin, DDT, DDE, aldrin, heptachlor, lindane, toxaphene), polycyclic aromatic hydrocarbons (PAHs), percent solids, and total organic carbon (TOC). CT subcontracted laboratory analysis for total cyanide to Environmental Monitoring Technologies, Inc. and laboratory analysis for oil and grease to Northern Lakes Services, Inc. which are also both Wisconsin-certified laboratories. One sample from each sediment boring was submitted for pesticides analysis. The composite sample from SB-01 was analyzed for waste characterization properties that include Toxicity Characteristic Leaching Procedure (TCLP)-semi-volatile organic compounds (SVOC), TCLP-pesticides, TCLP-herbicides, TCLP-metals, PCBs, Cyanide/Sulfide Reactive, pH, flashpoint, free liquids, and TCLP-VOCs at CT Laboratories. The waste characteristics results will help determine the best option for remediation of Oak Creek Mill Pond.

Sediment samples were also submitted to Pace Analytical Services in Green Bay, Wisconsin for per- and poly-fluorinated alkyl substances (PFAS) using an EPA-approved isotope dilution method for the State of Wisconsin list of 33 PFAS compounds. Quality control samples for PFAS included field and equipment blanks for the sediment sampling event. One duplicate sediment sample and matrix spike/matrix spike duplicate sediment sample were collected during the July 20, 2022, event.

The laboratory analytical reports were validated by an AECOM chemist. A copy of the data validation memo and the laboratory analytical results are attached as Appendices B and C, listed respectfully.

Sample Location Description

Boring SB-05 is the furthest upstream, characterized by sand and gravel deposits consistent with a higher energy depositional environment. SB-04 and SB-02 also exhibit higher energy deposits, suggesting that flow continues through them in the direction of boring SB-01. The sediment at SB-01 and SB-03 suggests a low energy environment with clay and silt deposits interspersed in sand layers. This is consistent with the location of SB-01 being closest to the dam and SB-03 located farther north of the others in a backwater area.

The sediment encountered at the subject property included well-graded sands with fine gravels or black lean clays. Clay layers were observed at borings SB-01 and SB-03 and the sands were found at borings SB-02, SB-04 and SB-05. SB-05 encountered a hard clay unit from 5.9 to 6 ft the end of the boring. The lithology documented in the sediment borings, provided in Appendix A, is consistent with fluvial deposits.

Results Summary

Sediment sample analytical results were compared with Chapter NR720 soil residual contaminant levels (RCL) and Consensus-Based Sediment Quality Guidelines (CBSQGs). Sample results compared to NR720 RCLs will determine how to manage materials if removed and dewatered. Evaluating results to CBSQGs serve as a benchmark screening level during different phases of the site assessment as related to effects to benthic macroinvertebrate species. The CBSQG Threshold Effect Concentrations (TEC) are the most conservative values followed by the Midpoint Effect Concentrations (MEC) and the higher of the three values are referred to as the Probable Effect Concentrations (PEC).

Sediment Results for PAHs, Pesticides, PCBs, Metals and miscellaneous

Benzo(a)anthracene exceeded generic RCLs in 8 of the 17 sediment samples. Benzo(a)pyrene exceeded generic RCLs in 16 of the 17 sediment samples. Benzo(b)fluoranthene exceeded generic RCLs in 12 of the 17 sediment samples. Chrysene exceeded generic RCLs in 15 of the 17 sediment samples. Dibenzo(a,h)anthracene exceeded generic RCLs in 10 of the 17 sediment samples. Indeno(1,2,3-cd)pyrene exceeded generic RCLs in 4 of the 17 sediment samples. All other PAH concentrations did not exceed their generic RCLs. Analytical results of the sediment samples are presented in Table 1.

All pesticide samples were analyzed from the 0-2 ft interval from the five boring locations. Pesticides had two groundwater pathway RCL exceedances, both were for the analyte gamma-BHC.

All sediment samples collected exceeded the groundwater pathway RCLs for manganese while arsenic exceeded the groundwater pathway RCL in 10 of the 17 samples collected. Arsenic background screening level of 8 mg/kg was not exceeded at any of the sample locations. One sample exceeded the groundwater pathway RCL for cadmium. Lead exceeded the groundwater pathway RCL in 7 of the 17 sediment samples. Nickel exceeded the groundwater pathway RCL in 6 samples. The following metal analytes did not exceed any generic RCLs: barium, chromium, copper, iron, mercury, and zinc. Selenium was not detected in the sediment samples from Oak Creek Mill Pond.

Cyanide concentrations were not detected in any of seventeen sediment samples. Concentrations of ammonia and nitrate nitrogen did not exceed generic RCLs. Phosphorus concentrations exceeded non-industrial and industrial RCLs in all samples.

Total PCB concentrations exceeded the non-industrial direct contact pathway at 4 of 5 location. The highest total PCB concentrations were reported from SB-04 collect from 6-8 feet. All sample analyzed for PCBs from SB-05 were reported well below non-industrial RCLs.

In comparison to generic RCLs, CBSQGs concentrations are benchmark screening criteria and may be reevaluated during the project life cycle. A total of 36 compounds analyzed have CBSQGs concentrations. The TEC value was exceeded in 29 compounds at the sediment sampling locations. The MEC value was exceeded in 20 compounds and the PEC value was exceeded in 16 compounds at the sediment sampling locations.

Sediment Results for PFAS Compounds

Perfluorohexanesulfonic acid (PFHxS), was detected in all five borings at each sample interval. The highest PFHxS concentrations were 1.0 µg/kg and 0.54 µg/kg in boring SB-04 at 0-2 ft and 2-4 ft, respectively. Perfluorooctanesulfonic acid (PFOS) was also detected in all five borings at each sample interval. The highest PFOS concentrations were 5.2 µg/kg and 4.6 µg/kg in boring SB-01 at 0-6 ft and in SB-04 at 0-2 ft, respectively. The lowest concentration of PFOS was 0.31 in boring SB-05 4-6 ft. The detected concentrations of PFOS were approximately three orders of magnitude less than Wisconsin's non-industrial direct contact RCL.

Perfluorooctanoic acid (PFOA) was detected at concentrations less than 0.25 mg/kg which is also three orders of magnitude less than Wisconsin's non-industrial direct contact RCL. Perfluorobutanesulfonic acid (PFBS) was detected in three samples at 0.041 µg/kg, 0.069 µg/kg, and 0.035 µg/kg in boring SB-01 at 6-12 ft, SB-04 at 0-2 ft, and SB-04 at 2-4 ft, respectively. All detections for PFBS were well below the RCL value.

A few PFAS compounds were detected above 1.0 µg/kg. Perfluorooctane sulfonamide (PFOSA) was reported at 1.7 µg/kg in boring SB-01 at 0-6 ft. N-Ethylperfluorooctanesulfonamidoacetic acid (EtFOSE) was reported at 1.9 µg/kg at SB-03 at 2-4 ft, at 3.3 µg/kg in boring SB-01 at 0-6 ft and at 1.9 µg/kg in boring SB-03 at 0-2 ft. EtFOSE was also reported at 2.6 µg/kg in boring SB-02 at 2-4 ft and 1.6 µg/kg in boring SB-03 at 4-6 ft.

No PFAS compounds in the replacement chemical group (HFPO-DA, DONA, 9CI-PF3ONS, 11CI-PF3OUdS) were detected in the sediment samples analyzed. The PFAS sediment results are provided in Table 2 and summarized on Figure 2. PFAS concentrations are broken down by chemical structure group; carboxylic acids, sulfonic acids, sulfonamides, sulfomidoacetic acids, sulfonamidoethanols, and replacement chemical groups.

Closing

Please contact us if you have any questions or comments regarding the results of our testing at the site.

Yours sincerely,



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enclosures: Table 1 Sediment Sample Results (PAHs, Pesticides, PCBs, Metals, Pesticides, and Miscellaneous)
Table 2 Sediment Sample Results (PFAS Compounds)
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Appendix B – Soil (sediment) Boring Logs
Appendix C - Data Validation Report
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Table 1
Sediment Sample Results (PAHs, Pesticides, PCBs, Metals, and Miscellaneous)
Oak Creek Mill Pond
Milwaukee County Parks, Wisconsin

Parameters	CBSQGs			Generic RCLs			SB-01	SB-01	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02		
	TEC	MEC	PEC	Direct Contact Pathway		Groundwater Pathway	0 - 6 ft	6 - 12 ft	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft
				Non-Industrial	Industrial		SB1_(0-6)	SB1_(6-12)	SB2_(0-2)	SB2_(2-4)DUP	SB2_(2-4)	SB2_(4-6)	SB2_(6-8)	SB3_(0-2)	SB3_(2-4)	SB3_(4-6)	SB4_(0-2)	SB4_(2-4)	SB4_(4-6)			
	7/20/2022																					
PAHs (µg/kg)																						
1-Methyl naphthalene	--	--	--	17600	72700	--	24.5 J	44.3 J	3.64 J	3.48 J	18.8 J	3.60 J	80.5	< 23	< 22	48.5 J	< 17	< 15	12.6			
2-Methylnaphthalene	20.2	111	201	239000	3010000	--	42.7 J ^D	80.7 ^D	4.24 J	4.62 J	20.3 J ^D	4.15 J	133 ^E	36.9 J ^D	19.1 J	72.2 J ^D	< 14	< 13	19.4			
Acenaphthene	6.7	48	89	3590000	45200000	--	122 ^F	219 ^F	25.6 ^D	22.7 J ^D	84.2 J ^E	30.2 ^D	615 ^F	126 ^F	90.7 ^F	296 ^F	40.4 J ^E	90.7 ^F	65.7 ^D			
Acenaphthylene	5.9	67	128	--	--	--	73.4 J ^E	113 ^E	19.8 ^D	12.6 ^D	15.8 ^D	13.5 ^D	325 ^F	75.7 J ^E	58.1 J ^D	105 ^E	48.3 J ^D	54.1 J ^D	43.5 ^D			
Anthracene	57.2	451	845	17900000	100000000	196949.2	246 ^D	513 ^E	62.7 ^D	151 J ^D	381 J ^D	71.6 ^D	1830 ^F	262 ^D	165 ^D	525 ^F	169 ^D	650 ^E	154 ^D			
Benzo(a)anthracene	108	579	1050	1140	20800	--	1250 ^{AF}	1950 ^{AF}	227 ^D	453 J ^D	973 J ^E	238 ^D	4900 ^{AF}	1260 ^{AF}	845 ^E	2100 ^{AF}	902 ^E	1470 ^{AF}	369 ^D			
Benzo(a)pyrene	150	800	1450	115	2110	470	1360 ^{ACE}	2000 ^{ACE}	216 ^{AD}	416 J ^{AD}	898 J ^{ACE}	240 ^{AD}	4900 ^{ABCF}	1420 ^{ACE}	948 ^{ACE}	2120 ^{ABCF}	974 ^{ACE}	1140 ^{ACE}	342 ^{AD}			
Benzo(b)fluoranthene	240	6820	13400	1150	21100	478.1	2010 ^{ACD}	2820 ^{ACD}	304 ^D	525 J ^{CD}	1120 J ^{CD}	333 ^D	8250 ^{ACE}	2090 ^{ACD}	1440 ^{ACD}	2980 ^{ACD}	1390 ^{ACD}	1390 ^{ACD}	447 ^D			
Benzo(g,h,i)perylene	170	1685	3200	--	--	--	854 ^D	1140 ^D	135	298 ^D	460 ^D	149	2990 ^E	896 ^D	630 ^D	1270 ^D	670 ^D	572 ^D	185 ^D			
Benzo(k)fluoranthene	240	6820	13400	11500	211000	--	581 ^D	916 ^D	93.3	188 J	360 J ^D	95.1	2220	647 ^D	456 ^D	975 ^D	422 ^D	476 ^D	144			
Chrysene	166	728	1290	115000	2110000	144.2	1470 ^{CF}	2320 ^{CF}	229 ^{CD}	479 J ^{CD}	867 J ^{CE}	259 ^{CD}	6210 ^{CF}	1500 ^{CF}	1010 ^{CE}	2440 ^{CF}	1010 ^{CE}	1290 ^{CE}	362 ^{CD}			
Dibenzo(a,h)anthracene	33	84	135	115	2110	--	189 ^{AF}	274 ^A	36.6	88.9	98.1	41.3	703 ^A	190 ^A	135 ^A	291 ^A	134 ^A	142 ^A	46.8			
Fluoranthene	423	1327	2230	2390000	30100000	88877.8	2950 ^F	4850 ^F	478 ^D	868 J ^E	2430 J ^F	656 ^D	13600 ^F	3080 ^F	2090 ^E	5640 ^F	2000 ^E	3450 ^F	909 ^D			
Fluorene	77.4	307	536	2390000	30100000	14829.9	195 ^D	363 ^E	30.1	32.0 J	138 J ^D	36.7	1100 ^F	182 ^D	147 ^D	432 ^E	59.4 J	183 ^E	75.7			
Indeno(1,2,3-cd)pyrene	200	1700	3200	1150	21100	--	1050 ^D	1450 ^{AD}	163 ^D	353 ^D	541 ^D	185	3600 ^{AF}	1110 ^D	792 ^D	1610 ^{AD}	788 ^D	694 ^D	243 ^D			
Naphthalene	176	369	561	5520	24100	658.2	49.7 J	83.4	3.54 J	4.17 J	14.2	5.13 J	136	40.2 J	< 18	59.3 J	14.8 J	< 13	9.55			
Phenanthrene	204	687	1170	--	--	--	1520 ^F	2630 ^F	179	370 J ^D	1430 J ^F	330 ^D	8420 ^F	1320 ^F	887 ^E	3120 ^F	715 ^E	1540 ^F	540 ^D			
Pyrene	195	858	1520	1790000	22600000	54545.5	2360 ^F	3940 ^F	388 ^D	802 J ^D	1830 J ^F	516 ^D	10400 ^F	2350 ^F	1620 ^F	4230 ^F	1520 ^E	2590 ^F	690 ^D			
Pesticides (µg/kg)																						
4,4'-DDE	3.2	17	31	2000	9380	--	33.3 ^F	--	3.25 J ^D	--	--	--	--	37.3 ^F	--	--	6.72 ^D	--	--			
4,4'-DDT	--	--	--	1890	8530	--	3.38 J	--	< 2.0	--	--	--	--	5.81 J	--	--	7.68 J	--	--			
Aldrin	2	41	80	39.7	187	--	< 2.1	--	< 1.5	--	--	--	--	< 2.4	--	--	< 1.8	--	--			
alpha-Chlordane	--	--	--	--	--	--	< 1.4	--	< 1.0 UJ	--	--	--	--	< 1.7	--	--	< 1.2	--	--			
Chlordane (technical)	3.2	10.6	18	1740	7760	--	< 31	--	< 22	--	--	--	--	< 36	--	--	< 26	--	--			
Dieldrin	1.9	32	62	33.9	144	--	< 1.3	--	< 0.93 UJ	--	--	--	--	< 1.5	--	--	< 1.1	--	--			
Endrin	2.2	104.6	207	19000	246000	161.6	< 2.1	--	< 1.5 UJ	--	--	--	--	< 2.4	--	--	< 1.8	--	--			
gamma-BHC	3	4	5	568	2540	2.3	< 260	--	< 19	--	--	--	--	< 300	--	--	4.52 J ^{CE}	--	--			
Heptachlor	2.5	9.3	16	140	654	66.2	42.9 ^F	--	4.87 J ^D	--	--	--	--	27.0 ^F	--	--	< 2.1	--	--			
Toxaphene	1	1.5	2	493	2090	928	< 32	--	< 23	--	--	--	--	< 37	--	--	< 27	--	--			
trans-Chlordane	--	--	--	--	--	--	15.8 J	--	< 1.0 UJ	--	--	--	--	10.7 J	--	--	< 1.2	--	--			
PCBs (µg/kg)																						
Aroclor 1016	--	--	--	4110	28000	--	< 27	< 27	< 20	< 20	< 19	< 20	< 23	< 33	< 31	< 27 UJ	< 24	< 21	< 23			
Aroclor 1221	--	--	--	213	883	--	< 44	< 45	< 33	< 32	< 31	< 34	< 38	< 55	< 51	< 45 UJ	< 39	< 35	< 37			
Aroclor 1232	--	--	--	190	792	--	< 17	< 18	< 13	< 13	< 12	< 13	< 15	< 22	< 20	< 18 UJ	< 15	< 14	< 15			
Aroclor 1242	--	--	--	235	972	--	< 16	80.3	< 12	< 12	< 11	< 12	76.4	200	71.4 J	92.3 J	< 14	< 12	< 13			
Aroclor 1248	--	--	--	236	975	--	< 22	< 22	< 16	< 16	< 15	< 17	< 19	< 27	< 26	< 22 UJ	< 19	< 17	< 19			
Aroclor 1254	--	--	--	239	988	--	93.3	149	< 21	< 21	< 20	< 22	172 J	163	143	183 J	49.9 J	< 22	< 24			
Aroclor 1260	--	--	--	243	1000	--	49.0 J	67.4	< 13	< 13	< 12	< 13	89.8	62.7 J	62.2 J	79.6 J	34.7 J	< 14	< 15			
Aroclor-1262	--	--	--	--	--	--	< 16	< 16	< 12	< 12	< 11	< 12	< 13	< 20	< 18	< 16 UJ	< 14	< 12	< 13			
Aroclor-1268	--	--	--	--	--	--	< 27	< 27	< 20	< 20	< 19	< 20	< 23	< 33	< 31	< 27 UJ	< 24	< 21	< 23			
Total PCBs	60	368	676	234	967	--	142 ^D	297 ^{AD}	< 12	< 12	< 11	< 12	338 ^{AE}	426 ^{AE}	277 ^{AD}	355 J ^{-AD}	84.6 ^D	< 12	< 13			
Metals (mg/kg)																						
Arsenic	9.8	21.4	33	0.677	3	0.584	6.9 ^{ABC}	6.8 ^{ABC}	2.2 ^{AC}	2.8 ^{AC}	2.7 ^{AC}	2.0 ^{AC}	7.0 ^{ABC}	6.4 ^{ABC}	6.6 ^{ABC}	7.3 ^{ABC}	3.2 ^{ABC}	2.6 ^{AC}	5.2 ^{ABC}			
Barium	--	--	--	15300	100000	164.8	59	56	8.6	18 J	8.0 J	7.1	50	58	67	70	28	10 J	34			
Cadmium	0.99	3.0	5.0	71.1	985	0.752	0.73	0.69	0.15 J	0.17 J	0.12 J	0.13 J	0.53	0.68	0.75	0.82 ^C	0.25 J	0.18 J	0.37			
Chromium	43	76.5	110	--	--	360000	45 ^D	49 ^D	5.6	5.1	5.7	4.5	43	29	32	70 ^D	12	6.1 J+	29			
Copper	32	91	150	3130	46700	91.6	64 ^D	66 ^D	8.2	18 J	9.4 J	7.6	39 ^D	40 ^D	42 ^D	58 ^D	19	13 J	29			
Iron	20000	30000	40000	54800	100000	--	19000	17000	6200	7300	7100	5700	17000	20000	22000	22000	9600	9000	13000			

Table 1
Sediment Sample Results (PAHs, Pesticides, PCBs, Metals, and Miscellaneous)
Oak Creek Mill Pond
Milwaukee County Parks, Wisconsin

Parameters	CBSQGs			Generic RCLs			SB-01	SB-01	SB-02	SB-02	SB-02	SB-02	SB-02	SB-02	SB-03	SB-03	SB-03	SB-04	SB-04	SB-04		
	TEC	MEC	PEC	Direct Contact Pathway		Groundwater Pathway	0 - 6 ft	6 - 12 ft	0 - 2 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	6 - 8 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft
				Non-Industrial	Industrial		SB1_(0-6)	SB1_(6-12)	SB2_(0-2)	SB2_(2-4)DUP	SB2_(2-4)	SB2_(4-6)	SB2_(6-8)	SB3_(0-2)	SB3_(2-4)	SB3_(4-6)	SB4_(0-2)	SB4_(2-4)	SB4_(4-6)			
Metals (mg/kg)																						
Lead	36	83	130	400	800	27	100 ^{CE}	110 ^{CE}	6.9	5.2	4.9	5.1	68 ^{CD}	43 ^{CD}	77 ^{CD}	140 ^{CF}	14	5.9 J+	54 ^{CD}			
Manganese	460	780	1100	1830	25900	39.1244	550 ^{CD}	510 ^{CD}	350 ^C	350 ^C	410 ^C	520 ^{CD}	530 ^{CD}	550 ^{CD}	520 ^{CD}	510 ^{CD}	410 ^C	560 ^{CD}	400 ^C			
Mercury	0.18	0.64	1.1	3.13	3.13	0.208	0.092	0.052	0.0061 J	0.012	0.0072 J	0.0055 J	0.035	0.051	0.059	0.086	0.022	0.010 J	0.035			
Nickel	23	36	49	1550	22500	13.0612	23 ^C	21 ^C	5.1	6.0	6.6	4.7	18 ^C	22 ^C	25 ^{CD}	29 ^{CD}	9.3	6.6	12			
Selenium	--	--	--	391	5840	0.52	< 0.42	< 0.41	< 0.29	< 0.31	< 0.27	< 0.29	< 0.35	< 0.49	< 0.45	< 0.42	< 0.36	< 0.31	< 0.35			
Zinc	120	290	460	23500	100000	--	150 ^D	140 ^D	33	30	26	30	92	160 ^D	160 ^D	180 ^D	70	34 J+	80			
Miscellaneous (mg/kg, unless specified)																						
Ammonia	--	--	--	--	--	--	309	274	10.5 J	< 2.1	< 1.9	5.8 J	104	164	255	315	< 2.4	4.6 J	30.9			
Cyanide	--	--	--	27.1	195	4.04	< 0.397	< 0.399	< 0.399	< 0.399	< 0.397	< 0.398	< 0.398	< 0.4	< 0.398	< 0.398	< 0.398	< 0.398	< 0.398			
Nitrate Nitrogen	--	--	--	100000	100000	--	1.79 J	1.83 J	< 0.94	< 0.95	1.24 J	< 0.96	< 1.1	< 1.6	2.02 J	1.96 J	2.26 J	1.44 J	< 1.1			
Nitrogen, Kjeldahl, Total	--	--	--	--	--	--	2070	1790	172 J-	< 52	67.1 J	135 J	948	2560	1680	2050	1390	346 J+	658			
Oil and Grease	--	--	--	--	--	--	2100	2700	360 J	200 J	410 J	380 J	1700	1300	1500	1400	960	810	1300			
Percent solid (%)	--	--	--	--	--	--	62.5	62.6	84.9	84.4	89.7	83.2	74.3	51.3	54.9	60.3	70.7	79.5	73.4			
pH (pH Units)	--	--	--	--	--	--	7.08	7.12	7.44	7.69	7.41	7.58	7.26	7.25	7.13	7.16	7.36	7.31	7.30			
Phosphorus	--	--	--	1.56	23.4	--	704 ^{AB}	741 ^{AB}	143 J+ ^{AB}	265 ^{AB}	171 ^{AB}	235 ^{AB}	435 ^{AB}	8990 ^{AB}	618 ^{AB}	793 ^{AB}	518 ^{AB}	410 J- ^{AB}	326 ^{AB}			
Total organic carbon	--	--	--	--	--	--	39600	38900	32000	49600	38500	30800	29500	35500	53400	46400	29900	48500 J	63100			

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

PCBs = Polychlorinated Biphenyls

µg/kg = Micrograms per kilogram.

mg/kg = Micrograms per kilogram.

RCL = Residual Contaminant Level

TEC = Threshold Effect Concentration

MEC = Midpoint Effect Concentration

PEC = Probable Effect Concentration

Unless specifically stated, sample results are reported on a dry weight basis.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

^C = Parameter exceeds Generic RCL for Groundwater Pathway.

^D = Parameter exceeds Level 1 (TEC) CBSQG.

^E = Parameter exceeds Level 2 (MEC) CBSQG.

^F = Parameter exceeds Level 3 (PEC) CBSQG.

^J = Estimated value (+/- indicate bias).

^{UJ} = Estimated limit of detection (LOD)

-- = No generic RCL or CBSQG established.

Generic RCLs December 2018 per WDNR PUB-RR-890.

TEC, MEC, and PEC values are based on WDNR Consensus-Based Sediment Quality Guidelines (CBSQGs) a December 2003 Interim Guidance.

Table 1
Sediment Sample Results (PAHs, Pesticides, PCBs, Metals, and Miscellaneous)
Oak Creek Mill Pond
Milwaukee County Parks, Wisconsin

Parameters	CBSQGs			Generic RCLs			SB-04	SB-05	SB-05	SB-05
	TEC	MEC	PEC	Direct Contact Pathway		Groundwater Pathway	6 - 8 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft
				Non-Industrial	Industrial		SB4_(6-8)	SB5_(0-2)	SB5_(2-4)	SB5_(4-6)
							7/20/2022	7/20/2022	7/20/2022	7/20/2022
PAHs (µg/kg)										
1-Methyl naphthalene	--	--	--	17600	72700	--	199	6.51	< 1.4	23.6
2-Methylnaphthalene	20.2	111	201	239000	3010000	--	305 ^F	10.7	< 1.2	30.6 ^D
Acenaphthene	6.7	48	89	3590000	45200000	--	864 ^F	13.0 ^D	12.1 ^D	138 ^F
Acenaphthylene	5.9	67	128	--	--	--	182 ^F	4.37 ^J	16.2 ^D	35.9 ^D
Anthracene	57.2	451	845	17900000	100000000	196949.2	1730 ^F	30.3 ^D	38.3 ^D	547 ^E
Benzo(a)anthracene	108	579	1050	1140	20800	--	4120 ^{AF}	123 ^D	154 ^D	1170 ^{AF}
Benzo(a)pyrene	150	800	1450	115	2110	470	3720 ^{ABCF}	113	118 ^A	1020 ^{ACE}
Benzo(b)fluoranthene	240	6820	13400	1150	21100	478.1	5270 ^{ACD}	166 ^D	172	1530 ^{ACD}
Benzo(g,h,i)perylene	170	1685	3200	--	--	--	2030 ^E	74.1	60.2	455 ^D
Benzo(k)fluoranthene	240	6820	13400	11500	211000	--	1640 ^D	47.7	153	388 ^D
Chrysene	166	728	1290	115000	2110000	144.2	4500 ^{CF}	120	133	1160 ^{CF}
Dibenzo(a,h)anthracene	33	84	135	115	2110	--	548 ^A	15.4	18.0	115 ^A
Fluoranthene	423	1327	2230	2390000	30100000	88877.8	11500 ^F	262	263	2810 ^F
Fluorene	77.4	307	536	2390000	30100000	14829.9	1040 ^F	14.8	15.0	200 ^D
Indeno(1,2,3-cd)pyrene	200	1700	3200	1150	21100	--	2520 ^{AE}	89.1	79.0	626 ^E
Naphthalene	176	369	561	5520	24100	658.2	266 ^D	2.41 ^J	< 1.2	30.9
Phenanthrene	204	687	1170	--	--	--	8150 ^F	123	114	1890 ^F
Pyrene	195	858	1520	1790000	22600000	54545.5	8110 ^F	277 ^D	207 ^E	2200 ^F
Pesticides (µg/kg)										
4,4'-DDE	3.2	17	31	2000	9380	--	--	0.910 ^J	--	--
4,4'-DDT	--	--	--	1890	8530	--	--	< 1.9	--	--
Aldrin	2	41	80	39.7	187	--	--	< 1.5	--	--
alpha-Chlordane	--	--	--	--	--	--	--	< 1.0	--	--
Chlordane (technical)	3.2	10.6	18	1740	7760	--	--	< 22	--	--
Dieldrin	1.9	32	62	33.9	144	--	--	< 0.91	--	--
Endrin	2.2	104.6	207	19000	246000	161.6	--	1.93 ^J	--	--
gamma-BHC	3	4	5	568	2540	2.3	--	2.73 ^J ^C	--	--
Heptachlor	2.5	9.3	16	140	654	66.2	--	< 1.7	--	--
Toxaphene	1	1.5	2	493	2090	928	--	< 23	--	--
trans-Chlordane	--	--	--	--	--	--	--	< 1.0	--	--
PCBs (µg/kg)										
Aroclor 1016	--	--	--	4110	28000	--	< 21	< 20	< 19	< 19
Aroclor 1221	--	--	--	213	883	--	< 35	< 32	< 32	< 32
Aroclor 1232	--	--	--	190	792	--	< 14	< 13	< 12	< 13
Aroclor 1242	--	--	--	235	972	--	165 ^J	< 12	< 11	< 11
Aroclor 1248	--	--	--	236	975	--	< 18	< 16	< 16	< 16
Aroclor 1254	--	--	--	239	988	--	285 ^A	< 21	< 20	25.2 ^J
Aroclor 1260	--	--	--	243	1000	--	129	< 13	< 12	< 13
Aroclor-1262	--	--	--	--	--	--	< 13	< 12	< 11	< 11
Aroclor-1268	--	--	--	--	--	--	< 21	< 20	< 19	< 19
Total PCBs	60	368	676	234	967	--	579 ^{AE}	< 12	< 11	25.2 ^J
Metals (mg/kg)										
Arsenic	9.8	21.4	33	0.677	3	0.584	4.4 ^{ABC}	1.9 ^{AC}	2.8 ^{AC}	3.2 ^{ABC}
Barium	--	--	--	15300	100000	164.8	20	7.2	6.5	8.5
Cadmium	0.99	3.0	5.0	71.1	985	0.752	0.28 ^J	0.15 ^J	0.13 ^J	0.18 ^J
Chromium	43	76.5	110	--	--	360000	9.3	4.8	4.1	7.3
Copper	32	91	150	3130	46700	91.6	18	7.7	7.4	20
Iron	20000	30000	40000	54800	100000	--	8500	6800	7100	12000

**Table 1
Sediment Sample Results (PAHs, Pesticides, PCBs, Metals, and Miscellaneous)
Oak Creek Mill Pond
Milwaukee County Parks, Wisconsin**

Parameters	CBSQGs			Generic RCLs			SB-04	SB-05	SB-05	SB-05
	TEC	MEC	PEC	Direct Contact Pathway		Groundwater Pathway	6 - 8 ft	0 - 2 ft	2 - 4 ft	4 - 6 ft
				Non-Industrial	Industrial		SB4_(6-8) 7/20/2022	SB5_(0-2) 7/20/2022	SB5_(2-4) 7/20/2022	SB5_(4-6) 7/20/2022
Metals (mg/kg)										
Lead	36	83	130	400	800	27	23	4.4	3.8	11
Manganese	460	780	1100	1830	25900	39.1244	440 ^C	440 ^C	480 ^{CD}	510 ^{CD}
Mercury	0.18	0.64	1.1	3.13	3.13	0.208	0.034	0.0034 J	0.0036 J	0.0062 J
Nickel	23	36	49	1550	22500	13.0612	8.8	4.6	4.6	6.6
Selenium	--	--	--	391	5840	0.52	< 0.31	< 0.29	< 0.28	< 0.29
Zinc	120	290	460	23500	100000	--	57	53	23	29
Miscellaneous (mg/kg, unless specified)										
Ammonia	--	--	--	--	--	--	55.9	< 2.0	< 1.9	< 1.9
Cyanide	--	--	--	27.1	195	4.04	< 0.397	< 0.399	< 0.398	< 0.397
Nitrate Nitrogen	--	--	--	100000	100000	--	< 1.0	< 0.92	< 0.92	< 0.91
Nitrogen, Kjeldahl, Total	--	--	--	--	--	--	762	< 51	107 J	94.8 J
Oil and Grease	--	--	--	--	--	--	1700	< 190	220 J	500 J
Percent solid (%)	--	--	--	--	--	--	78.5	86.4	86.6	87.3
pH (pH Units)	--	--	--	--	--	--	7.29	7.92	8.17	8.38
Phosphorus	--	--	--	1.56	23.4	--	380 ^{AB}	104 ^{AB}	199 ^{AB}	177 ^{AB}
Total organic carbon	--	--	--	--	--	--	30800	55300	36400	55300

Notes:

PAHs = Polynuclear Aromatic Hydrocarbons

PCBs = Polychlorinated Biphenyls

µg/kg = Micrograms per kilogram.

mg/kg = Micrograms per kilogram.

RCL = Residual Contaminant Level

TEC = Threshold Effect Concentration

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PEC = Probable Effect Concentration

Unless specifically stated, sample results are reported on a dry weight basis.

^A = Parameter exceeds Generic RCL for Non-Industrial Direct Contact.

^B = Parameter exceeds Generic RCL for Industrial Direct Contact (none).

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^D = Parameter exceeds Level 1 (TEC) CBSQG.

^E = Parameter exceeds Level 2 (MEC) CBSQG.

^F = Parameter exceeds Level 3 (PEC) CBSQG.

^J = Estimated value (+/- indicate bias).

^{UJ} = Estimated limit of detection (LOD)

-- = No generic RCL or CBSQG established.

Generic RCLs December 2018 per WDNR PUB-RR-890.

TEC, MEC, and PEC values are based on WDNR Consensus-Based Sediment Quality Guidelines (CBSQGs).

Table 2
Sediment Sample Results (PFAS Compounds)
Oak Creek Mill Pond
Milwaukee County, Wisconsin

Abbreviation	Analyte [# carbons] (trade name)	Cas Number	Units	Location:		NR 720 Residual Contaminant Levels		SB-01	SB-01	SB-02	SB-02	SB-02	SB-02
				Sample Interval (ft bgs):		Non-Industrial Direct Contact	Industrial Direct Contact	0'-6'	6'-12'	0'-2'	2'-4'	2'-4' DUP	4'-6'
				Sample Date:				7/20/2022	7/20/2022	7/20/2022	7/20/2022	7/20/2022	7/20/2022
						SB1_(0-6)	SB1_(6-12)	SB2_(0-2)	SB2_(2-4)	SB2_(2-4)DUP	SB2_(4-6)		
Carboxylic Acids:													
PFBA	Perfluorobutanoic acid [C4] (FC 23, Fluorod FC 23)	375-22-4	µg/kg	--	--	< 0.041	< 0.041	< 0.034	< 0.033	< 0.033	< 0.034		
PFPeA	Perfluoropentanoic acid [C5]	2706-90-3	µg/kg	--	--	< 0.041	< 0.041	< 0.034	0.036 J	< 0.033	0.039 J		
PFHxA	Perfluorohexanoic acid [C6]	307-24-4	µg/kg	--	--	0.052 J	0.040 J	0.056 J	0.054 J	0.048 J	0.064 J		
PFHpA	Perfluoroheptanoic acid [C7]	375-85-9	µg/kg	--	--	< 0.050	< 0.050	< 0.041	< 0.041	< 0.041	< 0.042		
PFOA	Perfluorooctanoic acid [C8]	335-67-1	µg/kg	1,260	16,400	0.12 J	0.072 J	< 0.037	0.047 J	0.061 J	0.049 J		
PFNA	Perfluorononanoic acid [C9]	375-95-1	µg/kg	--	--	< 0.045	< 0.045	< 0.037	< 0.037	< 0.036	< 0.037		
PFDA	Perfluorodecanoic acid [C10]	335-76-2	µg/kg	--	--	< 0.033	< 0.033	< 0.027	< 0.027	< 0.027	0.032 J		
PFUnA	Perfluoroundecanoic acid [C11]	2058-94-8	µg/kg	--	--	< 0.044	< 0.044	< 0.036	< 0.035	< 0.035	0.036 J		
PFDoA	Perfluorododecanoic acid [C12]	307-55-1	µg/kg	--	--	< 0.048	< 0.048	0.054 J	< 0.039	< 0.038	0.080 J		
PFTrDA	Perfluorotridecanoic acid [C13]	72629-94-8	µg/kg	--	--	< 0.046	< 0.046	< 0.038	< 0.037	< 0.037	0.041 J		
PFTeDA	Perfluorotetradecanoic acid [C14]	376-06-7	µg/kg	--	--	< 0.050	< 0.050	< 0.041	< 0.040	< 0.040	< 0.041		
Sulfonic Acids:													
PFBS	Perfluorobutanesulfonic acid [C4]	375-73-5	µg/kg	1,260,000	16,400,000	< 0.038	0.041 J	< 0.031	< 0.031	< 0.031	< 0.031		
PFPeS	Perfluoropentane Sulfonic acid [C5]	2706-91-4	µg/kg	--	--	< 0.035	< 0.035	< 0.029	0.031 J	0.035 J	0.040 J		
PFHxS	Perfluorohexanesulfonic acid [C6]	355-46-4	µg/kg	--	--	0.24 J+	0.22 J+	0.29 J+	0.29 J	0.39 J	0.30 J+		
PFHpS	Perfluoroheptanesulfonic acid [C7]	375-92-8	µg/kg	--	--	< 0.040	< 0.040	< 0.033	< 0.033	< 0.032	0.041 J		
PFOS	Perfluorooctanesulfonic acid [C8] (FC 95, Fluorod FC 95)	1763-23-1	µg/kg	1,260	16,400	5.2	2.9	2.4	2.0	2.3	3.0		
PFNS	Perfluorononanesulfonic acid [C9]	68259-12-1	µg/kg	--	--	< 0.050	< 0.050	< 0.041	< 0.041	< 0.041	< 0.042		
PFDS	Perfluorodecanesulfonic acid [C10]	335-77-3	µg/kg	--	--	0.33	0.17	0.093 J	< 0.033	< 0.033	0.15		
PFDoS	Perfluorododecanesulfonic acid [C12]	79780-39-5	µg/kg	--	--	< 0.038	< 0.038	< 0.031	< 0.031	< 0.031	< 0.031		
4:2 FTS	4:2 Fluorotelomer Sulfonic acid [C6]	757124-72-4	µg/kg	--	--	< 0.033	< 0.033	< 0.027	< 0.027	< 0.027	< 0.028		
6:2 FTS	6:2 Fluorotelomer sulfonic acid [C8]	27619-97-2	µg/kg	--	--	0.065 J-	< 0.060	0.10 J	0.097 J	0.12	0.13		
8:2 FTS	8:2 Fluorotelomer sulfonic acid [C10]	39108-34-4	µg/kg	--	--	0.14 J-	0.066 J	< 0.052	< 0.052	< 0.051	0.11 J		
Sulfonamides, Sulfonamidoacetic acids, Sulfonamidoethanols:													
PFOSA	Perfluorooctane sulfonamide [C8]	754-91-6	µg/kg	--	--	1.7	0.77	0.091 J	0.087 J	0.065 J	0.11 J		
NMeFOSA	N-Methyl perfluorooctane sulfonamide [C9] (Fluorod FX 12)	31506-32-8	µg/kg	--	--	0.048 J	< 0.039 R	< 0.032 R	< 0.032	< 0.032 R	< 0.033		
NEtFOSA	N-Ethyl perfluorooctane sulfonamide [C10] (Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfuramid, Volcano)	4151-50-2	µg/kg	--	--	0.077 J	0.042 J	< 0.030 R	< 0.030	< 0.030 R	< 0.031		
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid [C11]	2355-31-9	µg/kg	--	--	0.37	0.17	0.095 J	0.033 J	< 0.033	0.14		
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	2991-50-6	µg/kg	--	--	3.3	1.1	0.10 J	< 0.047	< 0.047	0.14		
NMeFOSE	N-Methyl perfluorooctane sulfonamidoethanol [C11]	24448-09-7	µg/kg	--	--	0.080 J	< 0.044	< 0.036	< 0.036	0.051 J	0.068 J		
NEtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol [C12] (FC-10, Fluorod FC 1)	1691-99-2	µg/kg	--	--	0.075 J	< 0.047	< 0.038	< 0.038	< 0.038	< 0.039		
Replacement Chemicals:													
HFPO-DA	Hexafluoropropylene oxide dimer acid [C6] (FRD-903, GenX)	13252-13-6	µg/kg	--	--	< 0.040	< 0.040	< 0.033	< 0.033	< 0.032	< 0.033		
DONA	4,8-dioxa-3H-perfluorononanoic acid [C7]	919005-14-4	µg/kg	--	--	< 0.052	< 0.053	< 0.043	< 0.043	< 0.042	< 0.043		
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	756426-58-1	µg/kg	--	--	< 0.036	< 0.036	< 0.030	< 0.030	< 0.029	< 0.030		
11Cl-PF3OUds	11-chloroicosadecafluoro-3-oxaundecane-1-sulfonic acid [C10]	763051-92-9	µg/kg	--	--	< 0.037	< 0.037	< 0.030	< 0.030	< 0.030	< 0.030		

Note:
µg/kg - micrograms per kilogram
ft bgs - feet below ground surface
DUP - duplicate
J - Estimated value (+/- indicate the direction of bias)
R - Rejected due to serious deficiencies in meeting QC criteria.
UJ - Estimated Method Detection Limit
Non-detects reported as less than the Method Detection Limit

Table 2
Sediment Sample Results (PFAS Compounds)
Oak Creek Mill Pond
Milwaukee County, Wisconsin

		Location:	SB-02	SB-03	SB-03	SB-03	SB-04	SB-04	SB-04	
		Sample Interval (ft bgs):	6'-8'	0'-2'	2'-4'	4'-6'	0'-2'	2'-4'	4'-6'	
		Sample Date:	7/20/2022	7/20/2022	7/20/2022	7/20/2022	7/20/2022	7/20/2022	7/20/2022	
Abbreviation	Analyte [# carbons] (trade name)	Cas Number	Units	SB2_(6-8)	SB3_(0-2)	SB3_(2-4)	SB3_(4-6)	SB4_(0-2)	SB4_(2-4)	SB4_(4-6)
Carboxylic Acids:										
PFBA	Perfluorobutanoic acid [C4] (FC 23, Fluorod FC 23)	375-22-4	µg/kg	< 0.036	< 0.048	< 0.049	< 0.045	0.12 J	< 0.032	< 0.038
PFPeA	Perfluoropentanoic acid [C5]	2706-90-3	µg/kg	0.041 J	< 0.048	< 0.049	< 0.045	0.42	0.11 J	0.070 J
PFHxA	Perfluorohexanoic acid [C6]	307-24-4	µg/kg	< 0.035	< 0.046	< 0.047	< 0.043	0.32	0.11 J	< 0.037
PFHpA	Perfluoroheptanoic acid [C7]	375-85-9	µg/kg	< 0.044	< 0.058	< 0.060	< 0.055	0.15	0.048 J	< 0.046
PFOA	Perfluorooctanoic acid [C8]	335-67-1	µg/kg	< 0.039	0.057 J	< 0.054	< 0.049	0.24	0.077 J	< 0.041
PFNA	Perfluorononanoic acid [C9]	375-95-1	µg/kg	< 0.039	< 0.052	< 0.054	< 0.049	0.12 J	< 0.036	< 0.041
PFDA	Perfluorodecanoic acid [C10]	335-76-2	µg/kg	< 0.029	0.040 J	< 0.039	< 0.036	0.18	0.041 J	< 0.030
PFUnA	Perfluoroundecanoic acid [C11]	2058-94-8	µg/kg	< 0.038	< 0.051	< 0.052	< 0.048	0.093 J	< 0.035	< 0.040
PFDoA	Perfluorododecanoic acid [C12]	307-55-1	µg/kg	< 0.042	0.064 J	< 0.057	< 0.052	0.21	0.067 J	< 0.044
PFTTrDA	Perfluorotridecanoic acid [C13]	72629-94-8	µg/kg	< 0.040	< 0.054	< 0.055	0.20 J	0.066 J	< 0.037	< 0.042
PFTeDA	Perfluorotetradecanoic acid [C14]	376-06-7	µg/kg	< 0.043	< 0.058	< 0.059	< 0.054	0.093 J	< 0.039	< 0.046
Sulfonic Acids:										
PFBS	Perfluorobutanesulfonic acid [C4]	375-73-5	µg/kg	< 0.033	< 0.044	< 0.045	< 0.041	0.069 J	0.035 J	< 0.035
PFPeS	Perfluoropentane Sulfonic acid [C5]	2706-91-4	µg/kg	< 0.030	< 0.040	< 0.041	< 0.038	0.066 J	0.043 J	< 0.032
PFHxS	Perfluorohexanesulfonic acid [C6]	355-46-4	µg/kg	0.077 J+	0.14 J+	0.13 J+	0.051 J+	1.0 J+	0.54 J+	0.11 J+
PFHpS	Perfluoroheptanesulfonic acid [C7]	375-92-8	µg/kg	< 0.035	< 0.047	< 0.048	< 0.044	0.048 J	< 0.032	< 0.037
PFOS	Perfluorooctanesulfonic acid [C8] (FC 95, Fluorod FC 95)	1763-23-1	µg/kg	0.40 J+	3.4	1.8	0.45 J+	4.6	3.2	0.25 J+
PFNS	Perfluorononanesulfonic acid [C9]	68259-12-1	µg/kg	< 0.044	< 0.058	< 0.060	< 0.055	< 0.046	< 0.040	< 0.046
PFDS	Perfluorodecanesulfonic acid [C10]	335-77-3	µg/kg	< 0.036	0.87	0.28	< 0.044	0.16	0.086 J	< 0.038
PFDoS	Perfluorododecanesulfonic acid [C12]	79780-39-5	µg/kg	< 0.033	< 0.044	< 0.045	< 0.041	< 0.035	< 0.030	< 0.035
4:2 FTS	4:2 Fluorotelomer Sulfonic acid [C6]	757124-72-4	µg/kg	< 0.029	< 0.039	< 0.040	< 0.036	< 0.031	< 0.027	< 0.031
6:2 FTS	6:2 Fluorotelomer sulfonic acid [C8]	27619-97-2	µg/kg	< 0.052	0.084 J	< 0.071	0.073 J-	0.10 J	0.11 J	< 0.055
8:2 FTS	8:2 Fluorotelomer sulfonic acid [C10]	39108-34-4	µg/kg	< 0.055	0.10 J	< 0.076	< 0.069 UJ	< 0.058	0.051 J	< 0.058
Sulfonamides, Sulfonamidoacetic acids, Sulfonamidoethanols:										
PFOSA	Perfluorooctane sulfonamide [C8]	754-91-6	µg/kg	< 0.037	0.38	1.9	0.90	0.057 J	0.11 J	< 0.039
NMeFOSA	N-Methyl perfluorooctane sulfonamide [C9] (Fluorod FX 12)	31506-32-8	µg/kg	< 0.034 R	< 0.046 R	< 0.047 R	< 0.043	< 0.036 R	< 0.031	< 0.036
NEtFOSA	N-Ethyl perfluorooctane sulfonamide [C10] (Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfuramid, Volcano)	4151-50-2	µg/kg	< 0.032 R	< 0.043 R	< 0.044 R	< 0.040	< 0.034	< 0.029	< 0.034
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid [C11]	2355-31-9	µg/kg	< 0.035	0.63	0.19	0.36	0.071 J	0.054 J	< 0.037
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	2991-50-6	µg/kg	0.21	1.9	2.6	1.6	0.074 J	0.073 J	0.69
NMeFOSE	N-Methyl perfluorooctane sulfonamidoethanol [C11]	24448-09-7	µg/kg	< 0.038	0.20	0.054 J	0.056 J	< 0.040	< 0.035	< 0.040
NEtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol [C12] (FC-10, Fluorod FC 1)	1691-99-2	µg/kg	< 0.041	0.11 J	0.061 J	< 0.051	< 0.043	< 0.037	< 0.043
Replacement Chemicals:										
HFPO-DA	Hexafluoropropylene oxide dimer acid [C6] (FRD-903, GenX)	13252-13-6	µg/kg	< 0.035	< 0.047	< 0.048	< 0.044	< 0.037	< 0.032	< 0.037
DONA	4,8-dioxa-3H-perfluorononanoic acid [C7]	919005-14-4	µg/kg	< 0.046	< 0.061	< 0.063	< 0.057	< 0.048	< 0.042	< 0.048
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	756426-58-1	µg/kg	< 0.032	< 0.042	< 0.043	< 0.040	< 0.033	< 0.029	< 0.033
11Cl-PF3OUds	11-chloroicosafafluoro-3-oxaundecane-1-sulfonic acid [C10]	763051-92-9	µg/kg	< 0.032	< 0.043	< 0.044	< 0.040	< 0.034	< 0.029	< 0.034

Note:
µg/kg - micrograms per kilogram
ft bgs - feet below ground surface
DUP - duplicate
J - Estimated value (+/- indicate the direction of bias)
R - Rejected due to serious deficiencies in meeting QC criteria.
UJ - Estimated Method Detection Limit
Non-detects reported as less than the Method Detection Limit

Table 2
Sediment Sample Results (PFAS Compounds)
Oak Creek Mill Pond
Milwaukee County, Wisconsin

		Location:		SB-04	SB-05	SB-05	SB-05
		Sample Interval (ft bgs):		6'-8'	0'-2'	2'-4'	4'-6'
		Sample Date:		7/20/2022	7/20/2022	7/20/2022	7/20/2022
Abbreviation	Analyte [# carbons] (trade name)	Cas Number	Units	SB4_(6-8)	SB5_(0-2)	SB5_(2-4)	SB5_(4-6)
Carboxylic Acids:							
PFBA	Perfluorobutanoic acid [C4] (FC 23, Fluorod FC 23)	375-22-4	µg/kg	< 0.037	< 0.033	< 0.032	< 0.032
PFPeA	Perfluoropentanoic acid [C5]	2706-90-3	µg/kg	< 0.038	< 0.033	< 0.032	< 0.033
PFHxA	Perfluorohexanoic acid [C6]	307-24-4	µg/kg	< 0.036	< 0.032	< 0.031	< 0.032
PFHpA	Perfluoroheptanoic acid [C7]	375-85-9	µg/kg	< 0.046	< 0.040	< 0.039	< 0.040
PFOA	Perfluorooctanoic acid [C8]	335-67-1	µg/kg	< 0.041	< 0.036	< 0.035	< 0.036
PFNA	Perfluorononanoic acid [C9]	375-95-1	µg/kg	< 0.041	< 0.036	< 0.035	< 0.036
PFDA	Perfluorodecanoic acid [C10]	335-76-2	µg/kg	< 0.030	< 0.026	< 0.025	< 0.026
PFUnA	Perfluoroundecanoic acid [C11]	2058-94-8	µg/kg	< 0.040	< 0.035	< 0.034	< 0.035
PFDoA	Perfluorododecanoic acid [C12]	307-55-1	µg/kg	< 0.043	< 0.038	< 0.037	< 0.038
PFTrDA	Perfluorotridecanoic acid [C13]	72629-94-8	µg/kg	< 0.042	< 0.037	< 0.036	< 0.037
PFTeDA	Perfluorotetradecanoic acid [C14]	376-06-7	µg/kg	< 0.045	< 0.039	< 0.038	< 0.039
Sulfonic Acids:							
PFBS	Perfluorobutanesulfonic acid [C4]	375-73-5	µg/kg	< 0.035	< 0.030	< 0.029	< 0.030
PFPeS	Perfluoropentane Sulfonic acid [C5]	2706-91-4	µg/kg	< 0.032	< 0.028	< 0.027	< 0.028
PFHxS	Perfluorohexanesulfonic acid [C6]	355-46-4	µg/kg	0.032	J+	0.14	J+
PFHpS	Perfluoroheptanesulfonic acid [C7]	375-92-8	µg/kg	< 0.037	< 0.032	< 0.031	< 0.032
PFOS	Perfluorooctanesulfonic acid [C8] (FC 95, Fluorod FC 95)	1763-23-1	µg/kg	1.0	0.59	J+	0.59
PFNS	Perfluorononanesulfonic acid [C9]	68259-12-1	µg/kg	< 0.046	< 0.040	< 0.039	< 0.040
PFDS	Perfluorodecanesulfonic acid [C10]	335-77-3	µg/kg	< 0.037	< 0.032	< 0.031	< 0.032
PFDoS	Perfluorododecanesulfonic acid [C12]	79780-39-5	µg/kg	< 0.034	< 0.030	< 0.029	< 0.030
4:2 FTS	4:2 Fluorotelomer Sulfonic acid [C6]	757124-72-4	µg/kg	< 0.030	< 0.027	< 0.026	< 0.026
6:2 FTS	6:2 Fluorotelomer sulfonic acid [C8]	27619-97-2	µg/kg	< 0.055	0.050	J	< 0.046
8:2 FTS	8:2 Fluorotelomer sulfonic acid [C10]	39108-34-4	µg/kg	< 0.058	< 0.050	< 0.049	< 0.050
Sulfonamides, Sulfonamidoacetic acids, Sulfonamidoethanols:							
PFOSA	Perfluorooctane sulfonamide [C8]	754-91-6	µg/kg	0.078	J	< 0.034	0.036
NMeFOSA	N-Methyl perfluorooctane sulfonamide [C9] (Fluorod FX 12)	31506-32-8	µg/kg	< 0.036	R	< 0.031	< 0.030
NEtFOSA	N-Ethyl perfluorooctane sulfonamide [C10] (Alstar, Finitron, Fluramin, FX 12, Mirex S, Sulfuramid, Volcano)	4151-50-2	µg/kg	< 0.034	R	< 0.029	< 0.029
MeFOSAA	N-Methylperfluorooctanesulfonamidoacetic acid [C11]	2355-31-9	µg/kg	0.18	< 0.032	< 0.031	< 0.032
EtFOSAA	N-Ethylperfluorooctanesulfonamidoacetic acid [C12]	2991-50-6	µg/kg	0.98	< 0.046	< 0.045	< 0.046
NMeFOSE	N-Methyl perfluorooctane sulfonamidoethanol [C11]	24448-09-7	µg/kg	< 0.040	< 0.035	< 0.034	< 0.035
NEtFOSE	N-Ethyl perfluorooctane sulfonamidoethanol [C12] (FC-10, Fluorod FC 1)	1691-99-2	µg/kg	< 0.043	< 0.037	< 0.036	< 0.037
Replacement Chemicals:							
HFPO-DA	Hexafluoropropylene oxide dimer acid [C6] (FRD-903, GenX)	13252-13-6	µg/kg	< 0.037	< 0.032	< 0.031	< 0.032
DONA	4,8-dioxa-3H-perfluorononanoic acid [C7]	919005-14-4	µg/kg	< 0.048	< 0.042	< 0.040	< 0.042
9Cl-PF3ONS	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid [C8]	756426-58-1	µg/kg	< 0.033	< 0.029	< 0.028	< 0.029
11Cl-PF3OUdS	11-chloroicosadecafluoro-3-oxaundecane-1-sulfonic acid [C10]	763051-92-9	µg/kg	< 0.033	< 0.029	< 0.028	< 0.029

Note:
µg/kg - micrograms per kilogram
ft bgs - feet below ground surface
DUP - duplicate
J - Estimated value (+/- indicate the direction of bias)
R - Rejected due to serious deficiencies in meeting QC criteria.
UJ - Estimated Method Detection Limit
Non-detects reported as less than the Method Detection Limit

Table 3 – Sediment Boring Location Coordinates, Oak Creek Mill Pond

Sediment Boring	Location Description	Latitude North	Longitude West
SB-01	Low energy bench in in approximately 1 foot water depth nearest the sluice gate system	42°54'44.43"	87°51'13.22"
SB-02	Near shoreline along the east edge of mid-channel bar on vegetated bench, north of SB-01	42°54'46.67"	87°51'14.12"
SB-03	Low energy cutoff bench deposit north of SB-02 and northeast of SB-04	42°54'49.00"	87°51'14.70"
SB-04	At shoreline along the south edge of mid-channel bar, west of SB-02 and southwest of SB-03	42°54'47.33"	87°51'17.93"
SB-05	Near shoreline along the south edge of mid-channel bar on vegetated bench, northwest of SB-04 and west of SB-03, furthest upstream sample location from the sluice gate system	42°54'49.43"	87°51'22.52"

Notes: Boring location coordinates collected using a handheld Global Positioning System (GPS).

Figures



Image from: Google Earth

Legend:

● Sediment Boring Location



AECOM Milwaukee
 Office 1555
 RiverCenter Dr
 Milwaukee, WI
 414.944.6080



Oak Creek Mill Pond Sediment Letter Report

Oak Creek Mill Pond Sediment Boring Locations

Project Number:
60686763

Drawn By:
BCG

Date:
9/16/2022

Figure 1

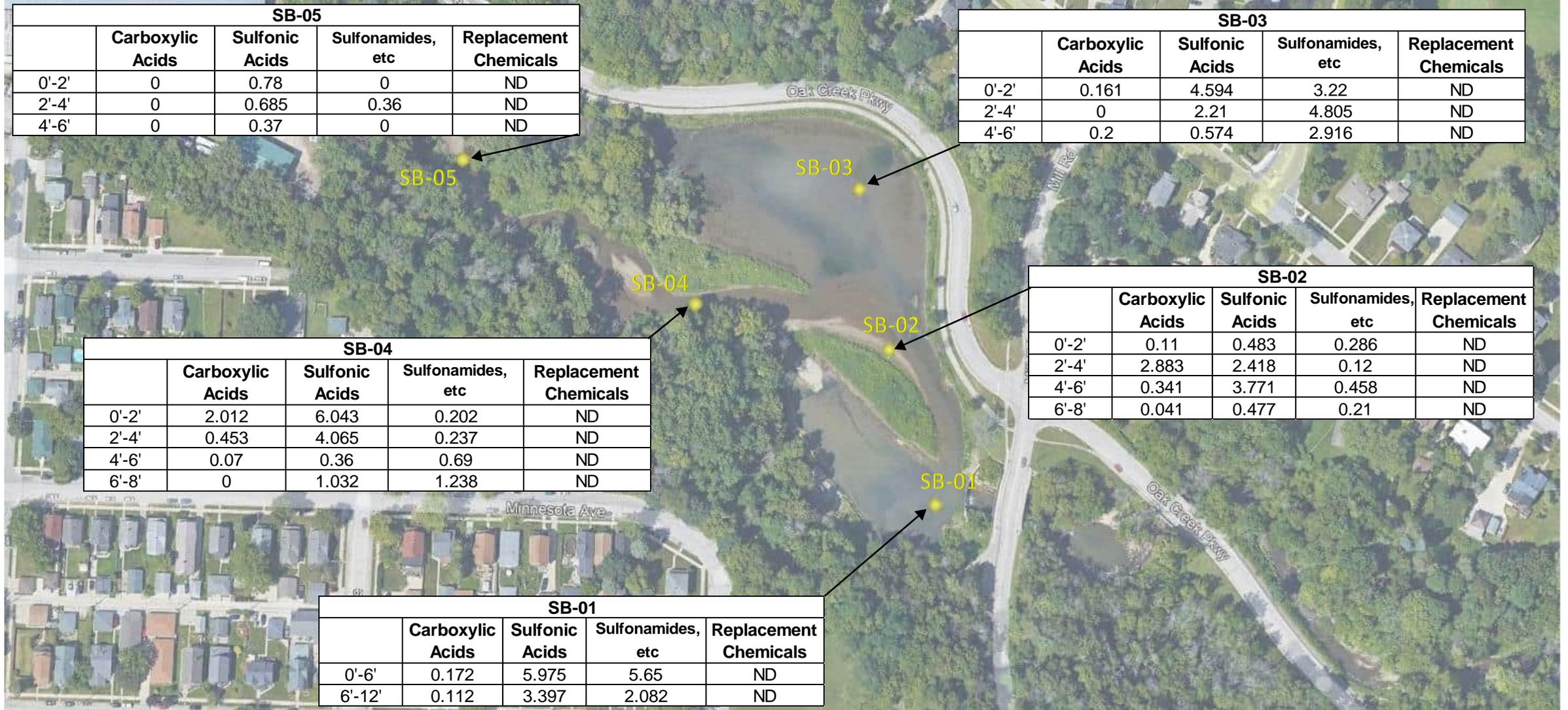
SB-05				
	Carboxylic Acids	Sulfonic Acids	Sulfonamides, etc	Replacement Chemicals
0'-2'	0	0.78	0	ND
2'-4'	0	0.685	0.36	ND
4'-6'	0	0.37	0	ND

SB-03				
	Carboxylic Acids	Sulfonic Acids	Sulfonamides, etc	Replacement Chemicals
0'-2'	0.161	4.594	3.22	ND
2'-4'	0	2.21	4.805	ND
4'-6'	0.2	0.574	2.916	ND

SB-04				
	Carboxylic Acids	Sulfonic Acids	Sulfonamides, etc	Replacement Chemicals
0'-2'	2.012	6.043	0.202	ND
2'-4'	0.453	4.065	0.237	ND
4'-6'	0.07	0.36	0.69	ND
6'-8'	0	1.032	1.238	ND

SB-02				
	Carboxylic Acids	Sulfonic Acids	Sulfonamides, etc	Replacement Chemicals
0'-2'	0.11	0.483	0.286	ND
2'-4'	2.883	2.418	0.12	ND
4'-6'	0.341	3.771	0.458	ND
6'-8'	0.041	0.477	0.21	ND

SB-01				
	Carboxylic Acids	Sulfonic Acids	Sulfonamides, etc	Replacement Chemicals
0'-6'	0.172	5.975	5.65	ND
6'-12'	0.112	3.397	2.082	ND



Legend:

● Sediment Boring Location

Units: µg/kg

ND = Not Detected

Image from: Google Earth



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Oak Creek Mill Pond Sediment Letter Report

Summary of Sediment Sample Results

for PFAS Compounds by Subgroup

Project Number: 60686763	Drawn By: BCG	Date: 9/16/2022	Figure 2
-----------------------------	------------------	--------------------	-----------------

Appendix A

Photo Log

PHOTOGRAPHIC LOG

Client Name: Milwaukee County Parks		Site Location: 600 Oak Creek Parkway South Milwaukee 53172	Project: 60686763
Photo: 1	Date: 7/20/2022		
Sediment Core Identification: SB-01 8'-12', 4'-8', 0'-4' (Left to right)			
Description: 0'-12': Soft, black lean clay, wet, low plasticity, cohesive			

Photo: 2	Date: 7/20/2022		
Sediment Core Identification: SB-02 0'-2'			
Description: Loose, very dark brown, well-graded sand with fine gravel, wet, trace silt/clay			

Photo: 3	Date: 7/20/2022	
Sediment Core Identification: SB-02 2'-4'		
Description: Loose, very dark brown, well-graded sand with fine gravel, wet, trace silt/clay		

Photo: 4	Date: 7/20/2022	
Sediment Core Identification: SB-02 4'-6'		
Description: Loose, very dark brown, well-graded sand with fine gravel, wet, trace silt/clay		

Photo: 5	Date: 11/1/18	
Sediment Core Identification: SB-02 6'-8'		
Description: Loose, very dark brown, well-graded sand with fine gravel, wet, trace silt/clay 6.5'-8': soft, very dark brown to dark grey, clay with trace silt, wet, little fine to medium sand		

Photo: 6	Date: 7/20/2022	
Sediment Core Identification: SB-03 4'-6', 2'-4', 0'-2' Left to Right		
Description: Soft, black lean clay low plasticity, cohesive, wet, trace shell fragments		

Photo: 7	Date: 7/20/2022	
Sediment Core Identification: SB-04 2'-4'		
Description: SB-04 (0'-2') No photograph – loose, silty sand with gravel, brown, wet, trace silt Loose, well graded sand with coarse gravel, black, wet, trace silt and clay		

Photo: 8	Date: 7/20/2022	
Sediment Core Identification: SB-04 4'-6'		
Description: Loose, well graded sand with coarse gravel, black, wet, trace silt and clay		

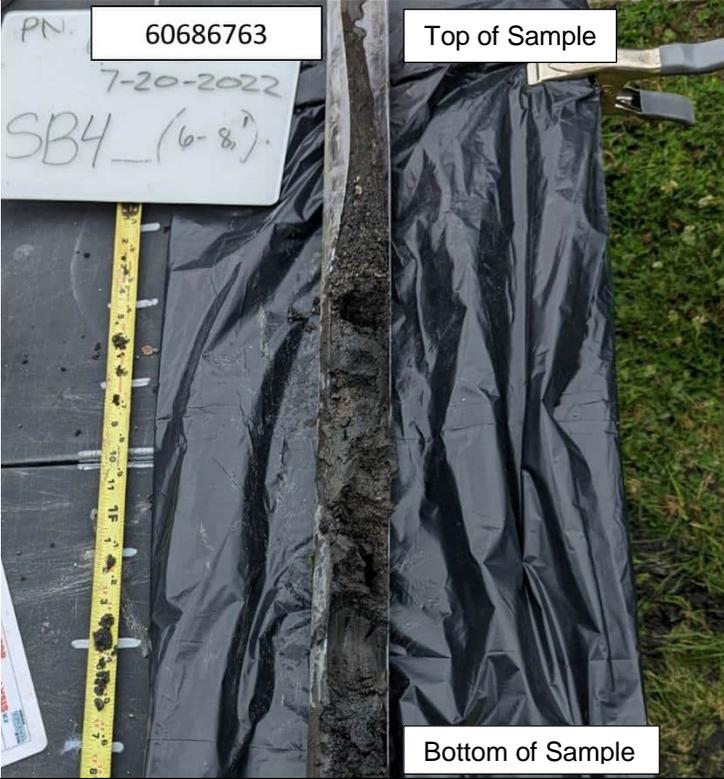
Photo: 9	Date: 7/20/2022	
Sediment Core Identification: SB-04 6'-8'		
Description: Loose, well graded sand with coarse gravel, black, wet, trace silt and clay, finer grained at depth.		

Photo: 10	Date: 7/20/2022	
Sediment Core Identification: SB-05 0'-2'		
Description: Loose, black, well graded sand with fine silt, wet, trace coarse gravel and trace silt		

Photo: 11	Date: 7/20/2022	
Sediment Core Identification: SB-05 2'-6'		
Description: (2'-5.8'): Loose, black well graded sand with fine silt, wet, trace coarse gravel and silt (5.8'-5.9'): Loose, black poorly graded sand with fine gravel, wet, trace silt (5.9'-6'): Hard, lean clay, black with grey, wet, low plasticity, cohesive		

Photo: 12	Date: 7/20/2022	
Direction View to Northwest		
Description: Sample location SB-05 along south edge of mid-channel bar on vegetative bench		

Photo: 13	Date: 7/20/2022
Direction View to West	
Description: Taken from the shoreline of Oak Creek Mill Pond	



Photo: 14	Date: 7/20/2022
Direction View to West	
Description: Drilling at a sediment core location SB-01	



Appendix B

Soil (Sediment Boring Logs)

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 2

Facility/Project Name Oak Creek Mill Pond			License/Permit/Monitoring Number		Boring Number 262
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Tony Last Name: Kepugi Firm: On-Site Environmental			Date Drilling Started 07/20/2022 m m d d y y y y	Date Drilling Completed 07/20/2022 m m d d y y y y	Drilling Method
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Lat _____ " _____ "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W	
Facility ID		County Milwaukee	County Code 41	Civil Town/City/ or Village Oak Creek South Milwaukee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	1.5' of 50			0-1.5' = Very Dark Brown (10YR 2/2), fine well graded sand with fine gravel, wet, low to medium plasticity , trace silt/clay										
2	6.5' of 87.5			fine very dark brown gray soft, very dark brown to dark gray (10YR 2/2, 4/1)										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
-----------	------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
 Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name: <u>Oak Creek Mill Pond</u>		License/Permit/Monitoring Number	Boring Number: <u>333</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>TONY</u> Last Name: <u>Kapogi</u> Firm: <u>On-Site Environmental</u>		Date Drilling Started: <u>07/20/2022</u> m m d d y y y y	Date Drilling Completed: <u>07/20/2022</u> m m d d y y y y
Drilling Method: <u>DP</u>	WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: <u>3</u> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		_____ Feet <input type="checkbox"/> N <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ ' "	Long _____ ' "
Facility ID	County: <u>Milwaukee</u>	County Code: <u>41</u>	Civil Town/City/ or Village: <u>South Milwaukee</u>

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
<u>10</u>				<u>Black lean clay low plasticity, non cohesive, wet soft</u>											
				<u>6'</u>											
				<u>E03 @ 6'</u>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm _____

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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 2

Facility/Project Name <u>Oak Creek Mill Creek Pond</u>		License/Permit/Monitoring Number	Boring Number <u>SB-4</u>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Tom</u> Last Name: <u>Kapogi</u> Firm: <u>On-Site Environmental</u>		Date Drilling Started <u>07/20/2022</u> m m d d y y y y	Date Drilling Completed <u>07/20/2022</u> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <u>DP</u>
		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
			Borehole Diameter <u>3</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane _____ N, _____ E		Lat _____ ' " <input type="checkbox"/> N <input type="checkbox"/> E	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Long _____ ' " <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County <u>Milwaukee</u>	County Code <u>41</u>	Civil Town/City/ or Village <u>South Milwaukee</u>

Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
<u>1</u>	<u>0-2'</u>			<u>wet, silty sand with gravel. (10YR 8/4) Brown.</u>											
			<u>↓</u>												
<u>2</u>	<u>2.75-4'</u>			<u>wet, well graded sand with coarse gravel. Black (10YR, 2.5/1) trace silt, trace clay</u>											
				<u>6'</u>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
-----------	------

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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name <u>Wah Creek Mill Pond</u>		License/Permit/Monitoring Number		Boring Number <u>SB5</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: <u>Tony</u> Last Name: <u>Kapugi</u> Firm: <u>On-Site Environmental</u>		Date Drilling Started <u>07/20/2022</u> m m d d y y y y	Date Drilling Completed <u>07/20/2022</u> m m d d y y y y	Drilling Method <u>DP</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <u>3</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane _____ N, _____ E		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of _____ 1/4 of Section _____, T _____ N, R _____		Lat _____ Long _____			
Facility ID		County <u>Milwaukee</u>	County Code <u>41</u>	Civil Town/City/ or Village <u>South Milwaukee</u>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	0-2			Black, well graded sand with fine gravel wet. Trace coarse gravel, trace silt										
2				↓ 5.8'										
	5.8-6'			Black poorly graded F/m sand w/ fine gravel										
	5.9-6'			hard lean clay unit black/grey.										EOB @ 6ft

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
-----------	------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Appendix C

Analytical Data Validation Report



AECOM
1555 N. RiverCenter Drive, Suite 214
Milwaukee, WI 53212

414.944.6080 tel
414.944.6081 fax

Data Validation Report

Project:	Oak Creek Mill Pond, Milwaukee County Parks, Wisconsin		
Laboratory:	CT Laboratories (Cyanide subcontracted to EMT; Oil and Grease subcontracted to Northern Lakes Services)		
Work Order (WO):	170983		
Analyses (Method):	PAHs (8270D SIM), Pesticides (80081B), PCBs (8082A), Metals (6010C), Ammonia (350.1), Cyanide (9014), Nitrate (9056A), Oil and Grease (1664), Phosphorus (365.4), pH (9045D), TOC (Lloyd-Kahn), Total Kjeldahl Nitrogen (351.2)		
Validation Level:	Level 2A		
Prepared by:	Lisa Smith (CEAC)	Completed on:	9/15/2022

The soil samples listed below, and the associated field QC blanks, were collected by AECOM on July 20, 2022.

Sample ID	QC Samples	Sample Date	Laboratory ID	Analyses
Soil Samples:				
SB1_(0-6)		7/20/2022	1166109	List A, Pesticides
SB1_(6-12)		7/20/2022	1166110	List A
SB2_(0-2)	MS/MSD for Pesticides, Ammonia, Phosphorus, TKN; Lab Dup for Ammonia, Phosphorus and TKN	7/20/2022	1166078	List A, Pesticides
SB2_(2-4)		7/20/2022	1166095	List A
SB2_(2-4)DUP	Field Duplicate of SB2_(2-4)	7/20/2022	1166096	List A
SB2_(4-6)		7/20/2022	1166097	List A
SB2_(6-8)		7/20/2022	1166098	List A
SB3_(0-2)		7/20/2022	1166106	List A, Pesticides
SB3_(2-4)		7/20/2022	1166107	List A
SB3_(4-6)		7/20/2022	1166108	List A
SB4_(0-2)		7/20/2022	1166099	List A, Pesticides
SB4_(2-4)	MS/MSD; Lab Dup for Metals, Ammonia, Nitrate Phosphorus, TKN, TOC	7/20/2022	1166100	List A
SB4_(4-6)		7/20/2022	1166101	List A
SB4_(6-8)		7/20/2022	1166102	List A
SB5_(0-2)	Lab Dup for pH	7/20/2022	1166103	List A, Pesticides
SB5_(2-4)		7/20/2022	1166104	List A
SB5_(4-6)		7/20/2022	1166105	List A
Field QC Blanks:				
EQB	Equipment Blank; MS/MSD for Mercury and Cyanide; Lab Dup for Mercury and TOC	7/20/2022	1166125	PAHs, Pesticides, PCBs, Metals, Cyanide, TOC

List A: PCBs, Metals, Ammonia, Cyanide, Nitrate, Oil and Grease, Phosphorus, pH, TOC, Total Kjeldahl Nitrogen (TKN)

Data validation activities were conducted with reference to:

- *National Functional Guidelines for Organic Superfund Methods Data Review* (November 2020)
- *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020)

The National Data Validation Functional Guidelines (NFGs) were modified to accommodate the non-CLP methodologies. In the absence of method-specific information, laboratory quality control (QC) limits were used as appropriate as the basis for validation actions.

REVIEW ELEMENTS

The data were evaluated based on the following parameters (where applicable to the method):

- ✓ Data completeness (chain-of-custody (CoC)/sample integrity)
- ✓ Sample Receipt and Holding Times
- ✓ Method blanks
- ✓ Field QC Blanks
- ✗ Surrogate Recoveries
- ✓ Laboratory control sample (LCS) results
- ✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results
- ✗ Laboratory duplicates
- ✗ Field duplicates
- ✗ Sample results and quantitation

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. The symbol (✗) indicates that a QC nonconformance resulted in the qualification of data. Any QC nonconformance that resulted in the qualification of data is discussed below. In addition, nonconformances or other issues that were noted during validation, but did not result in qualification of data, may be discussed for informational purposes only.

SUMMARY

Based on the results of the validation, the data are valid as reported and may be used for decision making purposes. Results were qualified as estimated (UJ or J qualifier with bias flags as appropriate) due to surrogate recoveries, MS/MSDs, laboratory duplicates, dual column results, and field precision. A detailed data validation discussion is provided below.

Data Completeness

The data packages were reviewed for the following completeness criteria:

- The CoCs were reviewed for completeness of information relevant to the samples and requested analyses, and for signatures indicating transfer of sample custody.
- The laboratory sample login sheet(s) were reviewed for issues potentially affecting sample integrity, including the condition of sample containers upon receipt at the laboratory.
- Completeness of analyses was verified by comparing the reported results to the CoC requests.

The following items were identified during the completeness review:

- Quality control results were not reported by Northern Lakes Services, and the data quality for oil and grease could not be assessed.
- TOC analyses was only listed on the CoC for sample EQB.
- The cover was not screwed on properly for sample SB2_(0-2) that was received at EMT. The laboratory indicated that water entered the sample container. CT Laboratories sent additional sample for analysis.

Holding Times

Samples were received at CT Laboratories and EMT intact, correctly preserved, and within the temperature criteria of ≤ 6 °C. Sample receipt information was not provided for Oil and Grease samples that analyzed by Northern Lakes Services.

Samples were extracted and analyzed within the method holding times.

Laboratory Method Blanks

Laboratory method blanks are analyzed to assess contamination from laboratory procedures. Method blanks were analyzed at the correct frequency. Analytes were not detected in the method blanks.

Field Quality Control Blanks

One equipment blank was associated with the soil samples. Equipment blanks were analyzed at the correct frequency. Contaminants detected in the equipment blank and results qualified are summarized in the table below.

Blank ID	Analyte	Concentration (ug/L)	Qualification
EQB	Phenanthrene	0.0076 J	Samples concentrations were greater than 5 times the maximum blank concentration, correcting for differences in sample units and volumes, and results were acceptable without qualification.
	Iron	127	
	Manganese	2.3 J	
	Zinc	8.4 J	

Surrogates

Surrogates are spiked into all field samples, field QC samples, and method QC samples and are used to evaluate accuracy. Surrogates are organic compounds similar to the target analyte(s) in chemical composition and behavior in the analytical process but are not usually found in environmental samples. Surrogate recoveries were not reported in the laboratory report; however, were reported in the EDD. Surrogate recoveries were within the laboratory's acceptance criteria, except as listed in the table below.

Sample ID	Surrogate	% Recovery	Recovery Limits	Results Qualified
SB3_(4-6)	Decachlorobiphenyl (8082A)	51.9	54-141	PCB detects for sample SB3_(4-6) were qualified as estimated biased low (J-), and nondetects were qualified UJ.

LCS/LCSD Results

LCS/LCSDs are analyzed to monitor accuracy and precision of the analytical method independent of matrix effects. The LCSs were analyzed at the correct frequency and were within the laboratory specified QC limits, except as listed in the table below.

Batch	Compound	LCS % Recovery	Recovery Limits	Qualifiers
B2H0117	Cyanide	120	85-115	The associated results were nondetect and were acceptable without qualification

MS/MSD Results

Matrix spikes are analyzed to determine the effects of sample matrix on the measurement methodology. Extra sample volume was submitted for sample SB4_(2-4) for MS/MSD analysis. MS/MSD results were also reported from batch analysis and project samples analyzed as MS/MSDs are shown in the sample summary table. MS/MSD recoveries and relative percent differences (RPDs) were within acceptable limits, with the exception of those listed below. Qualifications were limited to the spiked samples as both high and low bias exists for some parameters indicating variability in the soil matrix.

Analyte	% Recovery	Recovery Limits	RPD	RPD Limit	Qualifiers
SB2 (0-2):					
4,4'-DDE	40/48	56-134	16	30	Detects for sample SB2_(0-2) were qualified as estimated biased low (J-), and nondetects were qualified UJ.
alpha-Chlordane	38/51	54-133	29	30	
Dieldrin	43/50	56-136	16	30	
Endrin	50/59	57-140	17	30	
trans-Chlordane	46/52	53-135	13	30	
Heptachlor	53/79	47-136	34	30	The heptachlor result for sample SB2_(0-2) was qualified as estimated (J).
Nitrogen, Kjeldahl, Total	88/88	90-110	3	20	The detect for sample SB2_(0-2) was qualified as estimated biased low (J-).
Phosphorus	145/118	90-110	14	20	The detect for sample SB2_(0-2) was qualified as estimated biased high (J+).
SB4 (2-4):					
Acenaphthene	20/53	44-111	29	40	PAH results were not qualified as the MS/MSD spike was diluted out, and most of the sample concentrations were greater than 4 times the sample concentration.
Anthracene	0/0	50-114	19	40	
Benzo(a)anthracene	0/0	54-122	7	40	
Benzo(a)pyrene	0/0	50-125	35	40	
Benzo(b)fluoranthene	0/0	53-128	55	40	
Benzo(g,h,i)perylene	0/0	49-127	37	40	
Benzo(k)fluoranthene	0/0	56-123	36	40	
Chrysene	0/0	57-118	42	40	
Dibenzo(a,h)anthracene	0/0	50-129	16	40	
Fluoranthene	0/0	55-119	9	40	
Fluorene	0/0	47-114	28	40	
Indeno(1,2,3-cd)pyrene	0/0	49-130	35	40	
Phenanthrene	0/0	49-113	34	40	
Pyrene	0/0	55-117	8	40	
Barium	36/28	83-113	20	20	
Chromium	123/99	85-113	15	20	The detects for sample SB4_(2-4) were qualified as estimated biased high (J+).
Lead	118/122	81-112	3	20	

Analyte	% Recovery	Recovery Limits	RPD	RPD Limit	Qualifiers
Zinc	112/132	82-113	9	20	
Iron	0/0	81-118	0	20	The sample concentrations were greater than 4 times the sample concentration. No qualifiers.
Manganese	0/0	84-114	1	20	
Nitrogen, Kjeldahl, Total	145/111	90-110	19	20	The detect for sample SB4_(2-4) was qualified as estimated biased high (J+).
Phosphorus	82/63	90-110	15	20	The detect for sample SB4_(2-4) was qualified as estimated biased low (J-).

Laboratory Duplicate

Laboratory duplicates are analyzed to assess laboratory precision. Project samples analyzed as laboratory duplicates are shown in the sample summary table. Laboratory duplicate RPDs were within the criteria of 20%, or results were \pm Limit of Quantitation (LOQ) if one of the results was within 5 times the LOQ, except as listed in the table below. Results associated with laboratory duplicate imprecision were qualified as estimated (J).

Analyte	Units	LOQ (max)	Sample Concentration	Field Duplicate Concentration	RPD (%)	RPD Limit
SB4_(2-4):						
Barium	mg/kg	0.61	10	13.9	32.6	20
Copper	mg/kg	0.61	13	16.1	21.3	20
Zinc	mg/kg	0.61	34	43.1	23.6	20
Total Organic Carbon	mg/kg	630	48500	68100	33.8	20

Field Duplicate Results

Field duplicates are collected to assess the overall precision of field sampling and laboratory analysis. One field duplicate was associated with this sample set. Field duplicate RPDs were within the soil criteria of 50%, or the absolute difference of the results were with \pm 2 times the LOQ if one or both of the results were less than five times the LOQ, except as indicated in bold. Results associated with field imprecision were qualified as estimated (UJ/J).

Analyte	Units	LOQ (max)	Sample Concentration	Field Duplicate Concentration	RPD (%)
SB2_(2-4) / SB2_(2-4)DUP:					
1-Methyl naphthalene	ug/kg	5.7	18.8	3.48 J	> \pm 2x LOQ
2-Methylnaphthalene	ug/kg	5.7	20.3	4.62 J	> \pm 2x LOQ
Acenaphthene	ug/kg	5.7	84.2	22.7	> \pm 2x LOQ
Anthracene	ug/kg	5.7	381	151	86.5
Benzo(a)anthracene	ug/kg	28	973	453	72.9
Benzo(a)pyrene	ug/kg	28	898	416	73.4
Benzo(b)fluoranthene	ug/kg	28	1120	525	72.3
Benzo(k)fluoranthene	ug/kg	5.7	360	188	62.8
Chrysene	ug/kg	28	867	479	57.7
Fluoranthene	ug/kg	28	2430	868	94.7

Analyte	Units	LOQ (max)	Sample Concentration	Field Duplicate Concentration	RPD (%)
Fluorene	ug/kg	5.7	138	32	124.7
Naphthalene	ug/kg	5.7	14.2	4.17 J	± 2x LOQ
Phenanthrene	ug/kg	28	1430	370	117.8
Pyrene	ug/kg	28	1830	802	78.1
Barium	mg/kg	0.61	8	18	76.9
Copper	mg/kg	0.61	9.4	18	62.8
Nitrate Nitrogen	mg/kg	3.1	1.24 J	4.7 U	--
Nitrogen, Kjeldahl, Total	mg/kg	170	67.1 J	210 U	--

Sample Results and Quantitation

Sample results were reviewed for correct methods, units, and reported analytes. No issues or discrepancies were found during this review.

Dilutions were required to bring the sample concentrations within the calibration range of the instrument.

Laboratory qualifiers indicate that the results between the primary and confirmation column differ by more than 40% for analytes listed below. These results were qualified as estimated (J).

Sample	Analyte
SB1_(0-6)	4,4'-DDT trans-Chlordane
SB2_(0-2)	Heptachlor
SB2_(6-8)	Aroclor 1254
SB3_(0-2)	4,4'-DDT trans-Chlordane gamma-BHC
SB4_(6-8)	Aroclor 1242
SB5_(0-2)	4,4'-DDE gamma-BHC
SB5_(4-6)	Aroclor 1254

EDD PAH results for sample SB4_(6-8) did not match results reported in the laboratory report. The laboratory was requested to review the data to determine the correct results, and provide corrective actions for incorrect reporting. The laboratory indicated the result was not corrected for % solids in the EDD. In addition, most of the detect flags in the EDD were incorrectly reported as "N" for all Oil and Grease results. The laboratory provided a revised EDD which included corrected PAH results for sample SB4_(6-8) and detect flags for TOC.

Qualified Analytical Results

Sample results qualified due to validation actions are summarized in Table 1. All actions are described above. Data validation qualifiers override any assigned laboratory data flags. Results reported below the LOQ were qualified as "*" on the CT's lab reports, and were indicated in brackets [] on the Northern Lakes Services report. These results were qualified J in the EDDs. The J qualifiers were retained, but are not shown in Table 1.

Table 1 - Data Validation Summary of Qualified Data

Sample ID	Analyte	Validation Qualifier ⁽¹⁾	Reason Code ⁽²⁾
SB3_(4-6)	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Aroclor 1262 Aroclor 1268 Total PCBs	Detects: J- Nondetects: UJ	s
SB2_(0-2)	4,4'-DDE alpha-Chlordane Dieldrin Endrin trans-Chlordane Nitrogen, Kjeldahl, Total	Detects: J- Nondetects: UJ	m
	Heptachlor	J	m
	Phosphorus	J+	m
SB4_(2-4)	Barium Phosphorus	J-	m
	Chromium Lead Zinc Nitrogen, Kjeldahl, Total	J+	m
SB4_(2-4)	Barium Copper Zinc Total Organic Carbon	J	ld
SB1_(0-6)	4,4'-DDT trans-Chlordane	J	dc
SB2_(0-2)	Heptachlor	J	dc
SB2_(6-8)	Aroclor 1254	J	dc
SB3_(0-2)	4,4'-DDT trans-Chlordane	J	dc
SB4_(0-2)	gamma-BHC	J	dc
SB4_(6-8)	Aroclor 1242	J	dc
SB5_(0-2)	4,4'-DDE gamma-BHC	J	dc
SB5_(4-6)	Aroclor 1254	J	dc

Sample ID	Analyte	Validation Qualifier ⁽¹⁾	Reason Code ⁽²⁾
SB2_(2-4) SB2_(2-4)DUP	2-Methylnaphthalene Acenaphthene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Fluoranthene Fluorene Phenanthrene Pyrene Barium Copper	J	fd

(1): Data Validation Qualifiers:

- J Estimated, +/- indicate the direction of bias
 UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximated and may be inaccurate or imprecise.

(2): Reason Codes:

- dc Dual column precision
 fd Field duplicate imprecision
 ld Laboratory duplicates
 m Matrix Spike recovery
 s Surrogate recovery

Appendix D

Analytical Laboratory Analytical Reports

Report Prepared for:

Tory Schultz
AECOM
1555 N RiverCenter Dr.
Milwaukee WI 53212

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

September 8, 2022

Report Information:

Pace Project #: 10618249
Sample Receipt Date: 07/23/2022
Client Project #: 60686763 Oak Creek Mill Pond
Client Sub PO #: 146394
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



September 08, 2022

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on nineteen samples, a matrix spike, and a matrix spike duplicate submitted by a representative of AECOM. The samples were analyzed for thirty-three perfluorinated compounds following Wisconsin DNR guidance. Reporting limits were set to MDL limits. This report was revised September 8, 2022 to update the client project number.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected.

Diminished/Elevated extracted internal standard (EIS) recovery ("R" flagged) were present in samples and CCV, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples have elevated EIS recoveries ("R" flagged) for FTS. While the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard, in the case of the FTS compounds, the recoveries are anomalously high, and are adversely impacted by matrix. The results for these native compounds should be considered estimated.

On the matrix spikes there are several analytes that are marked R as the recoveries are diminished or elevated from the expected levels. These deviations may be due to the presence of the affected analytes in the sample material and/or sample inhomogeneity.

The four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Results that were below the calibration range were flagged "J". Values were flagged "I" where incorrect isotope ratios were obtained.

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
Field Blank	10618249001	07/23/2022	Water
EQb	10618249002	07/23/2022	Water
SB2_(0-2)	10618249003	07/23/2022	Solid
SB2_(2-4)	10618249004	07/23/2022	Solid
SB2_(2-4)DUP	10618249005	07/23/2022	Solid
SB2_(4-6)	10618249006	07/23/2022	Solid
SB2_(6-8)	10618249007	07/23/2022	Solid
SB4_(0-2)	10618249008	07/23/2022	Solid
SB4_(2-4)	10618249009	07/23/2022	Solid
SB4_(4-6)	10618249010	07/23/2022	Solid
SB4_(6-8)	10618249011	07/23/2022	Solid
SB5_(0-2)	10618249012	07/23/2022	Solid
SB5_(2-4)	10618249013	07/23/2022	Solid
SB5_(4-6)	10618249014	07/23/2022	Solid
SB3_(0-2)	10618249015	07/23/2022	Solid
SB3_(2-4)	10618249016	07/23/2022	Solid
SB3_(4-6)	10618249017	07/23/2022	Solid
SB1_(0-6)	10618249018	07/23/2022	Solid
SB1_(6-12)	10618249019	07/23/2022	Solid

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: AECOM
 Address: 1555 N RiverCenter Drive, Milwaukee, WI 53212
 Report To: Tory Schultz (tory.schultz@aecom.com)
 Copy To:
 Customer Project Name/Number:

Billing Information:
 Email To: Tory Schultz (tory.schultz@aecom.com)
 Site Collection Info/Address:
 6000 Oak Creek Pkwy
 State: WI / County/City: South Milwaukee / Time Zone Collected: PT [] MT [X] CT [] ET

Phone: 414-690-8405
 Email: tory.schultz@aecom.com
 Collected By (print): Garret Schacht and Brittany Grosskopf
 Collected By (signature): *[Signature]*
 Sample Disposal:
 [] Dispose as appropriate
 [] Return
 [] Archive:
 [] Hold:

Site/Facility ID #:
 Purchase Order #: 146394
 Quote #: 00108651
 Turnaround Date Required: Standard
 Rush: (Expedite Charges Apply)
 [] Same Day [] Next Day
 [] 2 Day [] 3 Day
 [] 4 Day [] 5 Day

Compliance Monitoring?
 [] Yes [] No
 DW PWS ID #:
 DW Location Code:
 Immediately Packed on Ice:
 [] Yes [] No
 Field Filtered (if applicable):
 [] Yes [] No
 Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
SBI-(D-6)	SL	G	7-20-22	1615				1	D
SBI-(6-12)	SL	G	7-20-22	1620				1	D
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> GS 7-22-2022 </div>									

LAB USE ONLY- Affix W

WO#: 10618249

ALL BOLD O

Container Preservation:

U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:	
PFAS WI DNR 33 List										Lab Sample Receipt Checklist:	
										Custody Seals Present/Intact	Y N NA
										Custody Signatures Present	Y N NA
										Collector Signature Present	Y N NA
										Bottles Intact	Y N NA
										Correct Bottles	Y N NA
										Sufficient Volume	Y N NA
										Samples Received on Ice	Y N NA
										VOA - Headspace Acceptable	Y N NA
										USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA										
Residual Chlorine Present	Y N NA										
Cl Strips:											
Sample pH Acceptable	Y N NA										
pH Strips:											
Sulfide Present	Y N NA										
Lead Acetate Strips:											
LAB USE ONLY:											
Lab Sample # / Comments:											
018 001 019 002 CMI 7/25/22											

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #:
 Samples received via:
 FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#:
 Cooler 1 Temp Upon Receipt: °C
 Cooler 1 Therm Corr. Factor: °C
 Cooler 1 Corrected Temp: °C
 Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Acctnum: Template: Prelogin:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	PM: PB:
				Trip Blank Received: Y N NA HCL MeOH TSP Other
				Non Conformance(s): YES / NO
				Page: 1 of: 1



DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

AECOM

Project #:

WO#: 10618249

Courier:

Fed Ex, UPS, USPS, Pace, SpeeDee, Commercial

Client

PM: KNH

Due Date: 08/23/22

CLIENT: AECOM

See Exceptions ENV-FRM-MIN4-0142

Tracking Number:

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap, Bubble Bags, None, Other

Temp Blank? Yes No

Thermometer: T1(0461), T2(1336), T3(0459), T4(0254), T5(0489), T6(0235), T7(0042), 01339252/1710, 122639816, 140792808

Type of Ice: Wet, Blue, None, Dry, Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank: 2.3 °C

Average Corrected Temp (no temp blank only): °C See Exceptions ENV-FRM-MIN4-0142 1 Container

Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 2.3 °C

USDA Regulated Soil: (N/A, water sample/Other:)

Date/Initials of Person Examining Contents: JM F/23/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Table with 2 columns: Location (check one) and COMMENTS. Rows include Chain of Custody, Short Hold Time Analysis, Rush Turn Around Time, Field Filtered Volume, and Headspace in Methyl Mercury Container.

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Comments/Resolution:

Date/Time: Field Data Required? Yes No

Project Manager Review: Kirsten Hogberg

Date: 7/25/2022

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: JM

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10618249001	Field Blank	SW3535	33610	PFAS-36	B220815A_01
10618249002	EQb	SW3535	33610	PFAS-36	B220815A_01
10618249003	SB2_(0-2)	SW3535	33575	PFAS-36	B220811A_00
10618249004	SB2_(2-4)	SW3535	33575	PFAS-36	B220811A_01
10618249005	SB2_(2-4)DUP	SW3535	33575	PFAS-36	B220811A_01
10618249006	SB2_(4-6)	SW3535	33575	PFAS-36	B220811A_01
10618249007	SB2_(6-8)	SW3535	33575	PFAS-36	B220811A_01
10618249008	SB4_(0-2)	SW3535	33575	PFAS-36	B220811A_01
10618249009	SB4_(2-4)	SW3535	33575	PFAS-36	B220810E_00
10618249010	SB4_(4-6)	SW3535	33575	PFAS-36	B220811A_01
10618249011	SB4_(6-8)	SW3535	33575	PFAS-36	B220811A_01
10618249012	SB5_(0-2)	SW3535	33601	PFAS-36	B220812A_00
10618249013	SB5_(2-4)	SW3535	33601	PFAS-36	B220812A_00
10618249014	SB5_(4-6)	SW3535	33601	PFAS-36	B220812A_01
10618249015	SB3_(0-2)	SW3535	33601	PFAS-36	B220822A_02
10618249016	SB3_(2-4)	SW3535	33601	PFAS-36	B220822A_02
10618249017	SB3_(4-6)	SW3535	33601	PFAS-36	B220822A_02
10618249018	SB1_(0-6)	SW3535	33601	PFAS-36	B220822A_02
10618249019	SB1_(6-12)	SW3535	33601	PFAS-36	B220822A_02



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Minneapolis, MN 55414
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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID Field Blank
 Lab Sample ID 10618249001
 Lab File ID B220815A_025
 Matrix Water
 Collected 07/20/2022 09:00
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 264mL
 Ical ID 220810B02
 CCal File B220815A_019
 Ending CCal File B220815A_031
 Blank File B220816B_009

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.42	0.42	1	375-22-4		08/15/2022 21:05
PFPeA	ND	1.9	0.41	0.41	1	2706-90-3		08/15/2022 21:05
HFPO-DA	ND	1.9	0.50	0.50	1	13252-13-6		08/15/2022 21:05
PFBS	ND	1.7	0.45	0.45	1	375-73-5		08/15/2022 21:05
PFHxA	ND	1.9	0.41	0.41	1	307-24-4		08/15/2022 21:05
4:2 FTS	ND	1.8	0.53	0.53	1	757124-72-4		08/15/2022 21:05
PFPeS	ND	1.8	0.45	0.45	1	2706-91-4		08/15/2022 21:05
PFHpA	ND	1.9	0.52	0.52	1	375-85-9		08/15/2022 21:05
DONA	ND	1.8	0.49	0.49	1	919005-14-4		08/15/2022 21:05
PFHxS	1.2 J	1.7	0.48	0.48	1	355-46-4		08/15/2022 21:05
PFOA	ND	1.9	0.55	0.55	1	335-67-1		08/15/2022 21:05
6:2 FTS	ND	1.8	0.61	0.61	1	27619-97-2		08/15/2022 21:05
PFHpS	ND	1.8	0.39	0.39	1	375-92-8		08/15/2022 21:05
PFNA	ND	1.9	0.70	0.70	1	375-95-1		08/15/2022 21:05
PFOSAm	ND	1.9	0.77	0.77	1	754-91-6		08/15/2022 21:05
PFOS	0.98 J	1.8	0.52	0.52	1	1763-23-1		08/15/2022 21:05
MeFOSA	ND	1.9	0.48	0.48	1	31506-32-8		08/15/2022 21:05
PFDA	ND	1.9	0.53	0.53	1	335-76-2		08/15/2022 21:05
EtFOSAm	ND	1.9	0.58	0.58	1	4151-50-2		08/15/2022 21:05
8:2 FTS	ND	1.8	0.62	0.62	1	39108-34-4		08/15/2022 21:05
9-CI-PF3ON	ND	1.8	0.29	0.29	1	756426-58-1		08/15/2022 21:05
PFNS	ND	1.8	0.42	0.42	1	68259-12-1		08/15/2022 21:05
PFUnDA	ND	1.9	0.51	0.51	1	2058-94-8		08/15/2022 21:05
NMeFOSAA	ND	1.9	0.41	0.41	1	2355-31-9		08/15/2022 21:05
NEtFOSAA	ND	1.9	0.53	0.53	1	2991-50-6		08/15/2022 21:05
PFDS	ND	1.8	0.43	0.43	1	335-77-3		08/15/2022 21:05
PFDOA	ND	1.9	0.46	0.46	1	307-55-1		08/15/2022 21:05
MeFOSE	ND	1.9	0.31	0.31	1	24448-09-7		08/15/2022 21:05
EtFOSE	ND	1.9	0.47	0.47	1	1691-99-2		08/15/2022 21:05
11-CI-PF3OUdS	ND	1.8	0.41	0.41	1	763051-92-9		08/15/2022 21:05
PFTTrDA	ND	1.9	0.59	0.59	1	72629-94-8		08/15/2022 21:05
PFDoS	ND	1.8	0.44	0.44	1	79780-39-5		08/15/2022 21:05
PFTDA	ND	1.9	0.45	0.45	1	376-06-7		08/15/2022 21:05

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID Field Blank
 Lab Sample ID 10618249001
 Lab File ID B220815A_025
 Matrix Water
 Collected 07/20/2022 09:00
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 264mL
 Ical ID 220810B02
 CCal File B220815A_019
 Ending CCal File B220815A_031
 Blank File B220816B_009

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	17	88	50-150		08/15/2022 21:05
13C4 PFOA	19	17	90	50-150		08/15/2022 21:05
13C2 PFDA	19	16	86	50-150		08/15/2022 21:05
13C4 PFOS	18	16	88	50-150		08/15/2022 21:05

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	22	114	25-150		08/15/2022 21:05
13C5 PFPeA	19	19	100	25-150		08/15/2022 21:05
13C3 PFBS	18	17	97	25-150		08/15/2022 21:05
13C2 4:2FTS	18	18	100	25-150		08/15/2022 21:05
13C5 PFHxA	19	19	102	25-150		08/15/2022 21:05
13C4 PFHpA	19	18	95	25-150		08/15/2022 21:05
13C3 PFHxS	18	18	100	25-150		08/15/2022 21:05
13C2 6:2FTS	18	16	89	25-150		08/15/2022 21:05
13C8 PFOA	19	18	97	25-150		08/15/2022 21:05
13C9 PFNA	19	19	99	25-150		08/15/2022 21:05
13C8 PFOS	18	16	89	25-150		08/15/2022 21:05
13C2 8:2FTS	18	17	94	25-150		08/15/2022 21:05
13C6 PFDA	19	17	91	25-150		08/15/2022 21:05
d3-MeFOSAA	19	15	77	25-150		08/15/2022 21:05
13C8 PFOSA	19	13	68	25-150		08/15/2022 21:05
d5-EtFOSAA	19	16	82	25-150		08/15/2022 21:05
13C7 PFUdA	19	15	78	25-150		08/15/2022 21:05
13C2 PFDoA	19	14	75	25-150		08/15/2022 21:05
13C2 PFTeDA	19	14	73	25-150		08/15/2022 21:05
13C3 HFPO-DA	19	20	105	25-150		08/15/2022 21:05
13C2 PFHxDA	19	13	67	25-150		08/15/2022 21:05
d7-N-MeFOSE	19	11	60	10-150		08/15/2022 21:05
d9-N-EtFOSE	19	9.2	49	10-150		08/15/2022 21:05
d3-N-MeFOSA	19	6.0	32	10-150		08/15/2022 21:05
d5-N-EtFOSA	19	5.2	27	10-150		08/15/2022 21:05

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	Field Blank	Total Amount Extracted	264mL
Lab Sample ID	10618249001	Ical ID	220810B02
Lab File ID	B220815A_025	CCal File	B220815A_019
Matrix	Water	Ending CCal File	B220815A_031
Collected	07/20/2022 09:00	Blank File	B220816B_009
Received	07/23/2022 11:35		
Extraction Date	08/03/2022 22:17		

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.78	5.77	21		08/15/2022 21:05
13C4 PFOA	N/A	N/A	7.12	7.07	19		08/15/2022 21:05
13C2 PFDA	N/A	N/A	8.44	8.39	17		08/15/2022 21:05
13C4 PFOS	N/A	N/A	8.91	8.88	13		08/15/2022 21:05

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.21	4.23	17		08/15/2022 21:05
13C5 PFPeA	N/A	N/A	5.09	5.10	18		08/15/2022 21:05
13C3 PFBS	N/A	N/A	6.02	6.02	16		08/15/2022 21:05
13C2 4:2FTS	N/A	N/A	5.50	5.51	81		08/15/2022 21:05
13C5 PFHxA	N/A	N/A	5.78	5.78	15		08/15/2022 21:05
13C4 PFHpA	N/A	N/A	6.45	6.42	18		08/15/2022 21:05
13C3 PFHxS	N/A	N/A	7.54	7.49	18		08/15/2022 21:05
13C2 6:2FTS	N/A	N/A	6.78	6.73	14		08/15/2022 21:05
13C8 PFOA	N/A	N/A	7.12	7.06	24		08/15/2022 21:05
13C9 PFNA	N/A	N/A	7.79	7.71	26		08/15/2022 21:05
13C8 PFOS	N/A	N/A	8.91	8.86	15		08/15/2022 21:05
13C2 8:2FTS	N/A	N/A	8.08	8.00	18		08/15/2022 21:05
13C6 PFDA	N/A	N/A	8.45	8.38	21		08/15/2022 21:05
d3-MeFOSAA	N/A	N/A	8.31	8.25	21		08/15/2022 21:05
13C8 PFOSA	N/A	N/A	10.45	10.42	11		08/15/2022 21:05
d5-EtFOSAA	N/A	N/A	8.59	8.54	12		08/15/2022 21:05
13C7 PFUdA	N/A	N/A	9.10	9.07	21		08/15/2022 21:05
13C2 PFDoA	N/A	N/A	9.76	9.71	14		08/15/2022 21:05
13C2 PFTeDA	N/A	N/A	11.07	11.02	14		08/15/2022 21:05
13C3 HFPO-DA	N/A	N/A	6.05	6.04	13		08/15/2022 21:05
13C2 PFHxDA	N/A	N/A	12.24	12.22	22		08/15/2022 21:05
d7-N-MeFOSE	N/A	N/A	12.48	12.44	53		08/15/2022 21:05
d9-N-EtFOSE	N/A	N/A	12.96	12.96	19		08/15/2022 21:05
d3-N-MeFOSA	N/A	N/A	12.69	12.65	13		08/15/2022 21:05
d5-N-EtFOSA	N/A	N/A	13.11	13.07	63		08/15/2022 21:05

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	Field Blank	Total Amount Extracted	264mL
Lab Sample ID	10618249001	Ical ID	220810B02
Lab File ID	B220815A_025	CCal File	B220815A_019
Matrix	Water	Ending CCal File	B220815A_031
Collected	07/20/2022 09:00	Blank File	B220816B_009
Received	07/23/2022 11:35		
Extraction Date	08/03/2022 22:17		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.21	4.23	ND		08/15/2022 21:05
PFPeA	N/A	N/A	5.10	5.10	ND		08/15/2022 21:05
HFPO-DA	0.00	0.31	0.00	6.07	ND		08/15/2022 21:05
PFBS	0.43	0.41	6.03	6.02	ND		08/15/2022 21:05
PFHxA	0.19	0.08	5.79	5.81	ND		08/15/2022 21:05
4:2 FTS	0.00	0.72	0.00	5.54	ND		08/15/2022 21:05
PFPeS	0.42	0.40	6.82	6.79	ND		08/15/2022 21:05
PFHpA	0.43	0.30	6.46	6.44	ND		08/15/2022 21:05
DONA	0.00	0.54	0.00	6.67	ND		08/15/2022 21:05
PFHxS	0.37	0.38	7.55	7.49	62	J	08/15/2022 21:05
PFOA	0.52	0.39	7.13	7.08	ND		08/15/2022 21:05
6:2 FTS	0.91	0.86	6.78	6.74	ND		08/15/2022 21:05
PFHpS	0.00	0.36	0.00	8.20	ND		08/15/2022 21:05
PFNA	0.14	0.13	7.79	7.73	ND		08/15/2022 21:05
PFOSAm	N/A	N/A	10.45	10.44	ND		08/15/2022 21:05
PFOS	0.30	0.36	8.67	8.90	18	J	08/15/2022 21:05
MeFOSA	0.00	0.51	0.00	12.69	ND		08/15/2022 21:05
PFDA	0.00	0.17	0.00	8.40	ND		08/15/2022 21:05
EtFOSAm	0.00	0.60	0.00	13.10	ND		08/15/2022 21:05
8:2 FTS	0.87	0.95	8.08	8.02	ND		08/15/2022 21:05
9-Cl-PF3ON	0.00	0.06	0.00	9.39	ND		08/15/2022 21:05
PFNS	0.00	0.50	0.00	9.58	ND		08/15/2022 21:05
PFUnDA	0.10	0.13	9.11	9.05	ND		08/15/2022 21:05
NMeFOSAA	0.00	0.84	0.00	8.26	ND		08/15/2022 21:05
NEtFOSAA	0.00	0.70	0.00	8.55	ND		08/15/2022 21:05
PFDS	0.00	0.32	0.00	10.19	ND		08/15/2022 21:05
PFDOA	0.00	0.16	0.00	9.72	ND		08/15/2022 21:05
MeFOSE	N/A	N/A	0.00	12.45	ND		08/15/2022 21:05
EtFOSE	0.00	0.00	0.00	12.92	ND		08/15/2022 21:05
11-Cl-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/15/2022 21:05
PFTTrDA	0.00	0.15	0.00	10.37	ND		08/15/2022 21:05
PFDoS	0.00	0.44	0.00	11.43	ND		08/15/2022 21:05
PFTDA	0.00	0.25	0.00	11.02	ND		08/15/2022 21:05

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID EQb
 Lab Sample ID 10618249002
 Lab File ID B220815A_026
 Matrix Water
 Collected 07/20/2022 15:00
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 259mL
 Ical ID 220810B02
 CCal File B220815A_019
 Ending CCal File B220815A_031
 Blank File B220816B_009

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	0.43	0.43	1	375-22-4		08/15/2022 21:25
PFPeA	ND	1.9	0.42	0.42	1	2706-90-3		08/15/2022 21:25
HFPO-DA	ND	1.9	0.51	0.51	1	13252-13-6		08/15/2022 21:25
PFBS	ND	1.7	0.46	0.46	1	375-73-5		08/15/2022 21:25
PFHxA	ND	1.9	0.42	0.42	1	307-24-4		08/15/2022 21:25
4:2 FTS	ND	1.8	0.54	0.54	1	757124-72-4		08/15/2022 21:25
PFPeS	ND	1.8	0.46	0.46	1	2706-91-4		08/15/2022 21:25
PFHpA	ND	1.9	0.53	0.53	1	375-85-9		08/15/2022 21:25
DONA	ND	1.8	0.50	0.50	1	919005-14-4		08/15/2022 21:25
PFHxS	0.89 J	1.8	0.49	0.49	1	355-46-4		08/15/2022 21:25
PFOA	ND	1.9	0.56	0.56	1	335-67-1		08/15/2022 21:25
6:2 FTS	ND	1.8	0.62	0.62	1	27619-97-2		08/15/2022 21:25
PFHpS	ND	1.8	0.40	0.40	1	375-92-8		08/15/2022 21:25
PFNA	ND	1.9	0.71	0.71	1	375-95-1		08/15/2022 21:25
PFOSAm	ND	1.9	0.79	0.79	1	754-91-6		08/15/2022 21:25
PFOS	2.3	1.8	0.53	0.53	1	1763-23-1		08/15/2022 21:25
MeFOSA	ND	1.9	0.49	0.49	1	31506-32-8		08/15/2022 21:25
PFDA	ND	1.9	0.54	0.54	1	335-76-2		08/15/2022 21:25
EtFOSAm	ND	1.9	0.59	0.59	1	4151-50-2		08/15/2022 21:25
8:2 FTS	ND	1.9	0.63	0.63	1	39108-34-4		08/15/2022 21:25
9-CI-PF3ON	ND	1.8	0.29	0.29	1	756426-58-1		08/15/2022 21:25
PFNS	ND	1.9	0.43	0.43	1	68259-12-1		08/15/2022 21:25
PFUnDA	ND	1.9	0.52	0.52	1	2058-94-8		08/15/2022 21:25
NMeFOSAA	ND	1.9	0.42	0.42	1	2355-31-9		08/15/2022 21:25
NEtFOSAA	ND	1.9	0.53	0.53	1	2991-50-6		08/15/2022 21:25
PFDS	ND	1.9	0.43	0.43	1	335-77-3		08/15/2022 21:25
PFDOA	ND	1.9	0.47	0.47	1	307-55-1		08/15/2022 21:25
MeFOSE	ND	1.9	0.32	0.32	1	24448-09-7		08/15/2022 21:25
EtFOSE	ND	1.9	0.48	0.48	1	1691-99-2		08/15/2022 21:25
11-CI-PF3OUdS	ND	1.8	0.42	0.42	1	763051-92-9		08/15/2022 21:25
PFTTrDA	ND	1.9	0.60	0.60	1	72629-94-8		08/15/2022 21:25
PFDoS	ND	1.9	0.44	0.44	1	79780-39-5		08/15/2022 21:25
PFTDA	ND	1.9	0.46	0.46	1	376-06-7		08/15/2022 21:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID EQb
 Lab Sample ID 10618249002
 Lab File ID B220815A_026
 Matrix Water
 Collected 07/20/2022 15:00
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 259mL
 Ical ID 220810B02
 CCal File B220815A_019
 Ending CCal File B220815A_031
 Blank File B220816B_009

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	19	100	50-150		08/15/2022 21:25
13C4 PFOA	19	19	101	50-150		08/15/2022 21:25
13C2 PFDA	19	18	92	50-150		08/15/2022 21:25
13C4 PFOS	18	20	107	50-150		08/15/2022 21:25

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	25	128	25-150		08/15/2022 21:25
13C5 PFPeA	19	21	109	25-150		08/15/2022 21:25
13C3 PFBS	18	20	113	25-150		08/15/2022 21:25
13C2 4:2FTS	18	21	116	25-150		08/15/2022 21:25
13C5 PFHxA	19	22	113	25-150		08/15/2022 21:25
13C4 PFHpA	19	21	107	25-150		08/15/2022 21:25
13C3 PFHxS	18	22	122	25-150		08/15/2022 21:25
13C2 6:2FTS	18	22	120	25-150		08/15/2022 21:25
13C8 PFOA	19	22	115	25-150		08/15/2022 21:25
13C9 PFNA	19	22	115	25-150		08/15/2022 21:25
13C8 PFOS	18	19	103	25-150		08/15/2022 21:25
13C2 8:2FTS	18	21	113	25-150		08/15/2022 21:25
13C6 PFDA	19	21	110	25-150		08/15/2022 21:25
d3-MeFOSAA	19	20	104	25-150		08/15/2022 21:25
13C8 PFOSA	19	18	93	25-150		08/15/2022 21:25
d5-EtFOSAA	19	19	99	25-150		08/15/2022 21:25
13C7 PFUdA	19	19	101	25-150		08/15/2022 21:25
13C2 PFDoA	19	19	97	25-150		08/15/2022 21:25
13C2 PFTeDA	19	17	90	25-150		08/15/2022 21:25
13C3 HFPO-DA	19	23	121	25-150		08/15/2022 21:25
13C2 PFHxDA	19	17	86	25-150		08/15/2022 21:25
d7-N-MeFOSE	19	18	92	10-150		08/15/2022 21:25
d9-N-EtFOSE	19	16	84	10-150		08/15/2022 21:25
d3-N-MeFOSA	19	11	56	10-150		08/15/2022 21:25
d5-N-EtFOSA	19	11	56	10-150		08/15/2022 21:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID EQb
 Lab Sample ID 10618249002
 Lab File ID B220815A_026
 Matrix Water
 Collected 07/20/2022 15:00
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 259mL
 Ical ID 220810B02
 CCal File B220815A_019
 Ending CCal File B220815A_031
 Blank File B220816B_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.79	5.77	18		08/15/2022 21:25
13C4 PFOA	N/A	N/A	7.12	7.07	22		08/15/2022 21:25
13C2 PFDA	N/A	N/A	8.44	8.39	20		08/15/2022 21:25
13C4 PFOS	N/A	N/A	8.91	8.88	16		08/15/2022 21:25

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.24	4.23	19		08/15/2022 21:25
13C5 PFPeA	N/A	N/A	5.11	5.10	26		08/15/2022 21:25
13C3 PFBS	N/A	N/A	6.03	6.02	13		08/15/2022 21:25
13C2 4:2FTS	N/A	N/A	5.52	5.51	76		08/15/2022 21:25
13C5 PFHxA	N/A	N/A	5.79	5.78	23		08/15/2022 21:25
13C4 PFHpA	N/A	N/A	6.44	6.42	16		08/15/2022 21:25
13C3 PFHxS	N/A	N/A	7.54	7.49	21		08/15/2022 21:25
13C2 6:2FTS	N/A	N/A	6.77	6.73	20		08/15/2022 21:25
13C8 PFOA	N/A	N/A	7.12	7.06	29		08/15/2022 21:25
13C9 PFNA	N/A	N/A	7.78	7.71	20		08/15/2022 21:25
13C8 PFOS	N/A	N/A	8.91	8.86	14		08/15/2022 21:25
13C2 8:2FTS	N/A	N/A	8.07	8.00	17		08/15/2022 21:25
13C6 PFDA	N/A	N/A	8.44	8.38	16		08/15/2022 21:25
d3-MeFOSAA	N/A	N/A	8.30	8.25	37		08/15/2022 21:25
13C8 PFOSA	N/A	N/A	10.47	10.42	12		08/15/2022 21:25
d5-EtFOSAA	N/A	N/A	8.58	8.54	11		08/15/2022 21:25
13C7 PFUdA	N/A	N/A	9.10	9.07	27		08/15/2022 21:25
13C2 PFDoA	N/A	N/A	9.76	9.71	17		08/15/2022 21:25
13C2 PFTeDA	N/A	N/A	11.07	11.02	16		08/15/2022 21:25
13C3 HFPO-DA	N/A	N/A	6.05	6.04	20		08/15/2022 21:25
13C2 PFHxDA	N/A	N/A	12.24	12.22	20		08/15/2022 21:25
d7-N-MeFOSE	N/A	N/A	12.47	12.44	50		08/15/2022 21:25
d9-N-EtFOSE	N/A	N/A	12.95	12.88	38		08/15/2022 21:25
d3-N-MeFOSA	N/A	N/A	12.69	12.65	10		08/15/2022 21:25
d5-N-EtFOSA	N/A	N/A	13.11	13.07	64		08/15/2022 21:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID EQb
 Lab Sample ID 10618249002
 Lab File ID B220815A_026
 Matrix Water
 Collected 07/20/2022 15:00
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 259mL
 Ical ID 220810B02
 CCal File B220815A_019
 Ending CCal File B220815A_031
 Blank File B220816B_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.24	4.23	ND		08/15/2022 21:25
PFPeA	N/A	N/A	5.12	5.15	ND		08/15/2022 21:25
HFPO-DA	0.00	0.31	0.00	6.07	ND		08/15/2022 21:25
PFBS	0.45	0.41	6.04	6.02	ND		08/15/2022 21:25
PFHxA	0.09	0.08	5.79	5.81	ND		08/15/2022 21:25
4:2 FTS	0.00	0.72	0.00	5.54	ND		08/15/2022 21:25
PFPeS	0.41	0.40	6.81	6.79	ND		08/15/2022 21:25
PFHpA	0.31	0.30	6.46	6.44	ND		08/15/2022 21:25
DONA	0.00	0.54	0.00	6.67	ND		08/15/2022 21:25
PFHxS	0.37	0.38	7.55	7.49	52	J	08/15/2022 21:25
PFOA	0.51	0.39	7.12	7.08	ND		08/15/2022 21:25
6:2 FTS	0.82	0.86	6.77	6.74	ND		08/15/2022 21:25
PFHpS	0.38	0.36	8.25	8.20	ND		08/15/2022 21:25
PFNA	0.13	0.13	7.79	7.73	ND		08/15/2022 21:25
PFOSAm	N/A	N/A	10.48	10.44	ND		08/15/2022 21:25
PFOS	0.30	0.36	8.67	8.90	27		08/15/2022 21:25
MeFOSA	0.00	0.51	0.00	12.69	ND		08/15/2022 21:25
PFDA	0.00	0.17	0.00	8.40	ND		08/15/2022 21:25
EtFOSAm	0.00	0.60	0.00	13.10	ND		08/15/2022 21:25
8:2 FTS	0.96	0.95	8.08	8.02	ND		08/15/2022 21:25
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/15/2022 21:25
PFNS	0.00	0.50	0.00	9.58	ND		08/15/2022 21:25
PFUnDA	0.00	0.13	0.00	9.05	ND		08/15/2022 21:25
NMeFOSAA	0.00	0.84	0.00	8.26	ND		08/15/2022 21:25
NEtFOSAA	0.00	0.70	0.00	8.55	ND		08/15/2022 21:25
PFDS	0.00	0.32	0.00	10.19	ND		08/15/2022 21:25
PFDOA	0.12	0.16	9.76	9.72	ND		08/15/2022 21:25
MeFOSE	N/A	N/A	0.00	12.45	ND		08/15/2022 21:25
EtFOSE	0.00	0.00	0.00	12.92	ND		08/15/2022 21:25
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/15/2022 21:25
PFTTrDA	0.00	0.15	0.00	10.37	ND		08/15/2022 21:25
PFDoS	0.00	0.44	0.00	11.43	ND		08/15/2022 21:25
PFTDA	0.00	0.25	0.00	11.02	ND		08/15/2022 21:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(0-2)	Total Amount Extracted	5.06g
Lab Sample ID	10618249003	Percent Moisture	16.82%
Lab File ID	B220811A_016	Dry Weight Extracted	4.20g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:30	CCal File	B220811A_005
Received	07/23/2022 11:35	Ending CCal File	B220811A_017
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.034	0.034	1	375-22-4		08/11/2022 14:10
PFPeA	ND	0.12	0.034	0.034	1	2706-90-3		08/11/2022 14:10
HFPO-DA	ND	0.12	0.033	0.033	1	13252-13-6		08/11/2022 14:10
PFBS	ND	0.11	0.031	0.031	1	375-73-5		08/11/2022 14:10
PFHxA	0.056 J	0.12	0.033	0.033	1	307-24-4		08/11/2022 14:10
4:2 FTS	ND	0.11	0.027	0.027	1	757124-72-4		08/11/2022 14:10
PFPeS	ND	0.11	0.029	0.029	1	2706-91-4		08/11/2022 14:10
PFHpA	ND	0.12	0.041	0.041	1	375-85-9		08/11/2022 14:10
DONA	ND	0.11	0.043	0.043	1	919005-14-4		08/11/2022 14:10
PFHxS	0.29	0.11	0.026	0.026	1	355-46-4		08/11/2022 14:10
PFOA	ND	0.12	0.037	0.037	1	335-67-1		08/11/2022 14:10
6:2 FTS	0.10 J	0.11	0.049	0.049	1	27619-97-2		08/11/2022 14:10
PFHpS	ND	0.11	0.033	0.033	1	375-92-8		08/11/2022 14:10
PFNA	ND	0.12	0.037	0.037	1	375-95-1		08/11/2022 14:10
PFOSAm	0.091 J	0.12	0.035	0.035	1	754-91-6		08/11/2022 14:10
PFOS	2.4	0.11	0.035	0.035	1	1763-23-1		08/11/2022 14:10
MeFOSA	ND	0.12	0.032	0.032	1	31506-32-8		08/11/2022 14:10
PFDA	ND	0.12	0.027	0.027	1	335-76-2		08/11/2022 14:10
EtFOSAm	ND	0.12	0.030	0.030	1	4151-50-2		08/11/2022 14:10
8:2 FTS	ND	0.11	0.052	0.052	1	39108-34-4		08/11/2022 14:10
9-CI-PF3ON	ND	0.11	0.030	0.030	1	756426-58-1		08/11/2022 14:10
PFNS	ND	0.11	0.041	0.041	1	68259-12-1		08/11/2022 14:10
PFUnDA	ND	0.12	0.036	0.036	1	2058-94-8		08/11/2022 14:10
NMeFOSAA	0.095 J	0.12	0.033	0.033	1	2355-31-9		08/11/2022 14:10
NEtFOSAA	0.10 J	0.12	0.048	0.048	1	2991-50-6		08/11/2022 14:10
PFDS	0.093 J	0.11	0.034	0.034	1	335-77-3		08/11/2022 14:10
PFDOA	0.054 J	0.12	0.039	0.039	1	307-55-1		08/11/2022 14:10
MeFOSE	ND	0.12	0.036	0.036	1	24448-09-7		08/11/2022 14:10
EtFOSE	ND	0.12	0.038	0.038	1	1691-99-2		08/11/2022 14:10
11-CI-PF3OUdS	ND	0.11	0.030	0.030	1	763051-92-9		08/11/2022 14:10
PFTTrDA	ND	0.12	0.038	0.038	1	72629-94-8		08/11/2022 14:10
PFDoS	ND	0.12	0.031	0.031	1	79780-39-5		08/11/2022 14:10
PFTDA	ND	0.12	0.041	0.041	1	376-06-7		08/11/2022 14:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(0-2)	Total Amount Extracted	5.06g
Lab Sample ID	10618249003	Percent Moisture	16.82%
Lab File ID	B220811A_016	Dry Weight Extracted	4.20g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:30	CCal File	B220811A_005
Received	07/23/2022 11:35	Ending CCal File	B220811A_017
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.5	124	50-150		08/11/2022 14:10
13C4 PFOA	1.2	1.5	122	50-150		08/11/2022 14:10
13C2 PFDA	1.2	1.4	120	50-150		08/11/2022 14:10
13C4 PFOS	1.1	1.3	117	50-150		08/11/2022 14:10

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.0	86	25-150		08/11/2022 14:10
13C5 PFPeA	1.2	1.1	95	25-150		08/11/2022 14:10
13C3 PFBS	1.1	0.99	90	25-150		08/11/2022 14:10
13C2 4:2FTS	1.1	0.90	81	25-150		08/11/2022 14:10
13C5 PFHxA	1.2	1.1	88	25-150		08/11/2022 14:10
13C4 PFHpA	1.2	0.97	82	25-150		08/11/2022 14:10
13C3 PFHxS	1.1	0.93	82	25-150		08/11/2022 14:10
13C2 6:2FTS	1.1	0.87	77	25-150		08/11/2022 14:10
13C8 PFOA	1.2	1.1	90	25-150		08/11/2022 14:10
13C9 PFNA	1.2	1.0	87	25-150		08/11/2022 14:10
13C8 PFOS	1.1	1.0	89	25-150		08/11/2022 14:10
13C2 8:2FTS	1.1	0.98	86	25-150		08/11/2022 14:10
13C6 PFDA	1.2	1.1	96	25-150		08/11/2022 14:10
d3-MeFOSAA	1.2	1.0	88	25-150		08/11/2022 14:10
13C8 PFOSA	1.2	0.74	62	25-150		08/11/2022 14:10
d5-EtFOSAA	1.2	1.2	99	25-150		08/11/2022 14:10
13C7 PFUdA	1.2	1.3	107	25-150		08/11/2022 14:10
13C2 PFDoA	1.2	1.2	103	25-150		08/11/2022 14:10
13C2 PFTeDA	1.2	1.5	125	25-150		08/11/2022 14:10
13C3 HFPO-DA	1.2	0.99	83	25-150		08/11/2022 14:10
13C2 PFHxDA	1.2	1.2	102	25-150		08/11/2022 14:10
d7-N-MeFOSE	1.2	0.45	38	10-150		08/11/2022 14:10
d9-N-EtFOSE	1.2	0.56	47	10-150		08/11/2022 14:10
d3-N-MeFOSA	1.2	0.033	3	10-150	R	08/11/2022 14:10
d5-N-EtFOSA	1.2	0.043	4	10-150	R	08/11/2022 14:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(0-2)	Total Amount Extracted	5.06g
Lab Sample ID	10618249003	Percent Moisture	16.82%
Lab File ID	B220811A_016	Dry Weight Extracted	4.20g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:30	CCal File	B220811A_005
Received	07/23/2022 11:35	Ending CCal File	B220811A_017
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.77	22		08/11/2022 14:10
13C4 PFOA	N/A	N/A	7.11	7.07	19		08/11/2022 14:10
13C2 PFDA	N/A	N/A	8.40	8.39	18		08/11/2022 14:10
13C4 PFOS	N/A	N/A	8.86	8.88	30		08/11/2022 14:10

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.23	18		08/11/2022 14:10
13C5 PFPeA	N/A	N/A	5.12	5.10	26		08/11/2022 14:10
13C3 PFBS	N/A	N/A	6.06	6.02	37		08/11/2022 14:10
13C2 4:2FTS	N/A	N/A	5.55	5.51	25		08/11/2022 14:10
13C5 PFHxA	N/A	N/A	5.82	5.78	17		08/11/2022 14:10
13C4 PFHpA	N/A	N/A	6.47	6.42	24		08/11/2022 14:10
13C3 PFHxS	N/A	N/A	7.51	7.47	51		08/11/2022 14:10
13C2 6:2FTS	N/A	N/A	6.78	6.73	28		08/11/2022 14:10
13C8 PFOA	N/A	N/A	7.11	7.06	22		08/11/2022 14:10
13C9 PFNA	N/A	N/A	7.75	7.71	20		08/11/2022 14:10
13C8 PFOS	N/A	N/A	8.86	8.86	35		08/11/2022 14:10
13C2 8:2FTS	N/A	N/A	8.03	8.00	35		08/11/2022 14:10
13C6 PFDA	N/A	N/A	8.40	8.38	19		08/11/2022 14:10
d3-MeFOSAA	N/A	N/A	8.26	8.25	13		08/11/2022 14:10
13C8 PFOSA	N/A	N/A	10.37	10.42	14		08/11/2022 14:10
d5-EtFOSAA	N/A	N/A	8.54	8.54	13		08/11/2022 14:10
13C7 PFUdA	N/A	N/A	9.05	9.07	20		08/11/2022 14:10
13C2 PFDoA	N/A	N/A	9.71	9.71	10		08/11/2022 14:10
13C2 PFTeDA	N/A	N/A	11.02	11.02	19		08/11/2022 14:10
13C3 HFPO-DA	N/A	N/A	6.09	6.04	16		08/11/2022 14:10
13C2 PFHxDA	N/A	N/A	12.17	12.22	15		08/11/2022 14:10
d7-N-MeFOSE	N/A	N/A	12.40	12.44	59		08/11/2022 14:10
d9-N-EtFOSE	N/A	N/A	12.87	12.88	22		08/11/2022 14:10
d3-N-MeFOSA	N/A	N/A	12.61	12.65	70	R	08/11/2022 14:10
d5-N-EtFOSA	N/A	N/A	13.02	13.07	23	R	08/11/2022 14:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(0-2)	Total Amount Extracted	5.06g
Lab Sample ID	10618249003	Percent Moisture	16.82%
Lab File ID	B220811A_016	Dry Weight Extracted	4.20g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:30	CCal File	B220811A_005
Received	07/23/2022 11:35	Ending CCal File	B220811A_017
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.17	4.29	ND		08/11/2022 14:10
PFPeA	N/A	N/A	5.13	5.15	ND		08/11/2022 14:10
HFPO-DA	0.00	0.27	0.00	6.07	ND		08/11/2022 14:10
PFBS	0.35	0.50	6.06	6.06	ND		08/11/2022 14:10
PFHxA	0.07	0.08	5.83	5.81	73	J	08/11/2022 14:10
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 14:10
PFPeS	0.33	0.44	6.81	6.79	ND		08/11/2022 14:10
PFHpA	0.23	0.29	6.48	6.44	ND		08/11/2022 14:10
DONA	0.00	0.55	0.00	6.67	ND		08/11/2022 14:10
PFHxS	0.34	0.36	7.52	7.49	11		08/11/2022 14:10
PFOA	0.43	0.41	7.12	7.08	ND		08/11/2022 14:10
6:2 FTS	0.87	0.94	6.79	6.74	47	J	08/11/2022 14:10
PFHpS	0.41	0.33	8.21	8.20	ND		08/11/2022 14:10
PFNA	0.17	0.14	7.76	7.73	ND		08/11/2022 14:10
PFOSAm	N/A	N/A	10.38	10.44	39	J	08/11/2022 14:10
PFOS	0.36	0.41	8.87	8.90	27		08/11/2022 14:10
MeFOSA	0.00	0.62	0.00	12.69	ND		08/11/2022 14:10
PFDA	0.13	0.16	8.40	8.40	ND		08/11/2022 14:10
EtFOSAm	0.00	0.49	0.00	13.10	ND		08/11/2022 14:10
8:2 FTS	2.10	0.82	8.03	8.02	ND		08/11/2022 14:10
9-CI-PF3ON	0.00	0.05	0.00	9.39	ND		08/11/2022 14:10
PFNS	0.37	0.51	9.54	9.54	ND		08/11/2022 14:10
PFUnDA	0.18	0.12	9.06	9.05	ND		08/11/2022 14:10
NMeFOSAA	0.74	0.82	8.27	8.26	17	J	08/11/2022 14:10
NEtFOSAA	0.55	0.73	8.55	8.55	48	J	08/11/2022 14:10
PFDS	0.38	0.36	10.19	10.19	12	J	08/11/2022 14:10
PFDOA	0.21	0.18	9.72	9.72	19	J	08/11/2022 14:10
MeFOSE	N/A	N/A	12.44	12.45	ND		08/11/2022 14:10
EtFOSE	0.00	0.00	12.90	12.92	ND		08/11/2022 14:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 14:10
PFTTrDA	0.18	0.13	10.38	10.37	ND		08/11/2022 14:10
PFDoS	0.71	0.49	11.41	11.43	ND		08/11/2022 14:10
PFTDA	0.24	0.22	11.02	11.02	ND		08/11/2022 14:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(2-4)	Total Amount Extracted	5.06g
Lab Sample ID	10618249004	Percent Moisture	15.9917%
Lab File ID	B220811A_018	Dry Weight Extracted	4.25g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:35	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.033	0.033	1	375-22-4		08/11/2022 14:50
PFPeA	0.036 J	0.12	0.033	0.033	1	2706-90-3		08/11/2022 14:50
HFPO-DA	ND	0.12	0.033	0.033	1	13252-13-6		08/11/2022 14:50
PFBS	ND	0.10	0.031	0.031	1	375-73-5		08/11/2022 14:50
PFHxA	0.054 J	0.12	0.032	0.032	1	307-24-4		08/11/2022 14:50
4:2 FTS	ND	0.11	0.027	0.027	1	757124-72-4		08/11/2022 14:50
PFPeS	0.031 J	0.11	0.028	0.028	1	2706-91-4		08/11/2022 14:50
PFHpA	ND	0.12	0.041	0.041	1	375-85-9		08/11/2022 14:50
DONA	ND	0.11	0.043	0.043	1	919005-14-4		08/11/2022 14:50
PFHxS	0.29	0.11	0.026	0.026	1	355-46-4		08/11/2022 14:50
PFOA	0.047 J	0.12	0.037	0.037	1	335-67-1		08/11/2022 14:50
6:2 FTS	0.097 J	0.11	0.049	0.049	1	27619-97-2		08/11/2022 14:50
PFHpS	ND	0.11	0.033	0.033	1	375-92-8		08/11/2022 14:50
PFNA	ND	0.12	0.037	0.037	1	375-95-1		08/11/2022 14:50
PFOSAm	0.087 J	0.12	0.035	0.035	1	754-91-6		08/11/2022 14:50
PFOS	2.0	0.11	0.035	0.035	1	1763-23-1		08/11/2022 14:50
MeFOSA	ND	0.12	0.032	0.032	1	31506-32-8		08/11/2022 14:50
PFDA	ND	0.12	0.027	0.027	1	335-76-2		08/11/2022 14:50
EtFOSAm	ND	0.12	0.030	0.030	1	4151-50-2		08/11/2022 14:50
8:2 FTS	ND	0.11	0.052	0.052	1	39108-34-4		08/11/2022 14:50
9-CI-PF3ON	ND	0.11	0.030	0.030	1	756426-58-1		08/11/2022 14:50
PFNS	ND	0.11	0.041	0.041	1	68259-12-1		08/11/2022 14:50
PFUnDA	ND	0.12	0.035	0.035	1	2058-94-8		08/11/2022 14:50
NMeFOSAA	0.033 J	0.12	0.033	0.033	1	2355-31-9		08/11/2022 14:50
NEtFOSAA	ND	0.12	0.047	0.047	1	2991-50-6		08/11/2022 14:50
PFDS	ND	0.11	0.033	0.033	1	335-77-3		08/11/2022 14:50
PFDOA	ND	0.12	0.039	0.039	1	307-55-1		08/11/2022 14:50
MeFOSE	ND	0.12	0.036	0.036	1	24448-09-7		08/11/2022 14:50
EtFOSE	ND	0.12	0.038	0.038	1	1691-99-2		08/11/2022 14:50
11-CI-PF3OUdS	ND	0.11	0.030	0.030	1	763051-92-9		08/11/2022 14:50
PFTTrDA	ND	0.12	0.037	0.037	1	72629-94-8		08/11/2022 14:50
PFDoS	ND	0.11	0.031	0.031	1	79780-39-5		08/11/2022 14:50
PFTDA	ND	0.12	0.040	0.040	1	376-06-7		08/11/2022 14:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(2-4)	Total Amount Extracted	5.06g
Lab Sample ID	10618249004	Percent Moisture	15.9917%
Lab File ID	B220811A_018	Dry Weight Extracted	4.25g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:35	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.4	115	50-150		08/11/2022 14:50
13C4 PFOA	1.2	1.5	125	50-150		08/11/2022 14:50
13C2 PFDA	1.2	1.1	96	50-150		08/11/2022 14:50
13C4 PFOS	1.1	1.3	113	50-150		08/11/2022 14:50

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.1	91	25-150		08/11/2022 14:50
13C5 PFPeA	1.2	1.1	93	25-150		08/11/2022 14:50
13C3 PFBS	1.1	0.99	90	25-150		08/11/2022 14:50
13C2 4:2FTS	1.1	0.90	82	25-150		08/11/2022 14:50
13C5 PFHxA	1.2	1.1	89	25-150		08/11/2022 14:50
13C4 PFHpA	1.2	0.98	83	25-150		08/11/2022 14:50
13C3 PFHxS	1.1	1.1	98	25-150		08/11/2022 14:50
13C2 6:2FTS	1.1	0.96	86	25-150		08/11/2022 14:50
13C8 PFOA	1.2	1.2	100	25-150		08/11/2022 14:50
13C9 PFNA	1.2	1.1	92	25-150		08/11/2022 14:50
13C8 PFOS	1.1	1.0	92	25-150		08/11/2022 14:50
13C2 8:2FTS	1.1	0.98	87	25-150		08/11/2022 14:50
13C6 PFDA	1.2	1.1	97	25-150		08/11/2022 14:50
d3-MeFOSAA	1.2	1.1	96	25-150		08/11/2022 14:50
13C8 PFOSA	1.2	0.81	69	25-150		08/11/2022 14:50
d5-EtFOSAA	1.2	1.1	96	25-150		08/11/2022 14:50
13C7 PFUdA	1.2	1.3	111	25-150		08/11/2022 14:50
13C2 PFDoA	1.2	1.3	115	25-150		08/11/2022 14:50
13C2 PFTeDA	1.2	1.2	101	25-150		08/11/2022 14:50
13C3 HFPO-DA	1.2	1.1	90	25-150		08/11/2022 14:50
13C2 PFHxDA	1.2	1.2	104	25-150		08/11/2022 14:50
d7-N-MeFOSE	1.2	0.58	49	10-150		08/11/2022 14:50
d9-N-EtFOSE	1.2	0.59	50	10-150		08/11/2022 14:50
d3-N-MeFOSA	1.2	0.12	10	10-150		08/11/2022 14:50
d5-N-EtFOSA	1.2	0.16	14	10-150		08/11/2022 14:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(2-4)	Total Amount Extracted	5.06g
Lab Sample ID	10618249004	Percent Moisture	15.9917%
Lab File ID	B220811A_018	Dry Weight Extracted	4.25g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:35	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	27		08/11/2022 14:50
13C4 PFOA	N/A	N/A	7.10	7.07	32		08/11/2022 14:50
13C2 PFDA	N/A	N/A	8.39	8.39	18		08/11/2022 14:50
13C4 PFOS	N/A	N/A	8.86	8.88	33		08/11/2022 14:50

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.23	18		08/11/2022 14:50
13C5 PFPeA	N/A	N/A	5.12	5.10	20		08/11/2022 14:50
13C3 PFBS	N/A	N/A	6.06	6.02	42		08/11/2022 14:50
13C2 4:2FTS	N/A	N/A	5.56	5.51	28		08/11/2022 14:50
13C5 PFHxA	N/A	N/A	5.83	5.78	18		08/11/2022 14:50
13C4 PFHpA	N/A	N/A	6.47	6.42	19		08/11/2022 14:50
13C3 PFHxS	N/A	N/A	7.50	7.47	65		08/11/2022 14:50
13C2 6:2FTS	N/A	N/A	6.78	6.73	33		08/11/2022 14:50
13C8 PFOA	N/A	N/A	7.10	7.06	23		08/11/2022 14:50
13C9 PFNA	N/A	N/A	7.74	7.71	19		08/11/2022 14:50
13C8 PFOS	N/A	N/A	8.86	8.86	45		08/11/2022 14:50
13C2 8:2FTS	N/A	N/A	8.02	8.00	50		08/11/2022 14:50
13C6 PFDA	N/A	N/A	8.39	8.38	22		08/11/2022 14:50
d3-MeFOSAA	N/A	N/A	8.25	8.25	14		08/11/2022 14:50
13C8 PFOSA	N/A	N/A	10.37	10.42	16		08/11/2022 14:50
d5-EtFOSAA	N/A	N/A	8.53	8.54	13		08/11/2022 14:50
13C7 PFUdA	N/A	N/A	9.05	9.07	21		08/11/2022 14:50
13C2 PFDoA	N/A	N/A	9.72	9.71	15		08/11/2022 14:50
13C2 PFTeDA	N/A	N/A	11.03	11.02	21		08/11/2022 14:50
13C3 HFPO-DA	N/A	N/A	6.09	6.04	16		08/11/2022 14:50
13C2 PFHxDA	N/A	N/A	12.20	12.22	17		08/11/2022 14:50
d7-N-MeFOSE	N/A	N/A	12.43	12.44	62		08/11/2022 14:50
d9-N-EtFOSE	N/A	N/A	12.90	12.88	32		08/11/2022 14:50
d3-N-MeFOSA	N/A	N/A	12.63	12.65	42		08/11/2022 14:50
d5-N-EtFOSA	N/A	N/A	13.06	13.07	40		08/11/2022 14:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(2-4)	Total Amount Extracted	5.06g
Lab Sample ID	10618249004	Percent Moisture	15.9917%
Lab File ID	B220811A_018	Dry Weight Extracted	4.25g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:35	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.35	ND		08/11/2022 14:50
PFPeA	N/A	N/A	5.13	5.15	64	J	08/11/2022 14:50
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/11/2022 14:50
PFBS	0.45	0.47	6.07	6.02	ND		08/11/2022 14:50
PFHxA	0.09	0.08	5.84	5.81	89	J	08/11/2022 14:50
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 14:50
PFPeS	0.32	0.42	6.81	6.79	49	J	08/11/2022 14:50
PFHpA	0.43	0.33	6.48	6.44	ND		08/11/2022 14:50
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 14:50
PFHxS	0.39	0.41	7.51	7.49	15		08/11/2022 14:50
PFOA	0.42	0.35	7.11	7.08	76	J	08/11/2022 14:50
6:2 FTS	0.85	0.88	6.78	6.74	42	J	08/11/2022 14:50
PFHpS	0.47	0.37	8.20	8.20	ND		08/11/2022 14:50
PFNA	0.14	0.14	7.75	7.73	ND		08/11/2022 14:50
PFOSAm	N/A	N/A	10.38	10.44	52	J	08/11/2022 14:50
PFOS	0.38	0.39	8.87	8.90	30		08/11/2022 14:50
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 14:50
PFDA	0.25	0.17	8.40	8.40	ND		08/11/2022 14:50
EtFOSAm	0.00	0.56	0.00	13.10	ND		08/11/2022 14:50
8:2 FTS	2.70	0.96	8.03	8.02	ND		08/11/2022 14:50
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 14:50
PFNS	0.41	0.51	9.55	9.58	ND		08/11/2022 14:50
PFUnDA	0.14	0.14	9.06	9.05	ND		08/11/2022 14:50
NMeFOSAA	0.74	0.84	8.26	8.26	91	J	08/11/2022 14:50
NEtFOSAA	0.67	0.69	8.55	8.55	ND		08/11/2022 14:50
PFDS	0.35	0.35	10.20	10.19	ND		08/11/2022 14:50
PFDOA	0.18	0.18	9.73	9.72	ND		08/11/2022 14:50
MeFOSE	N/A	N/A	12.47	12.45	ND		08/11/2022 14:50
EtFOSE	0.00	0.00	12.93	12.92	ND		08/11/2022 14:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 14:50
PFTTrDA	0.13	0.16	10.39	10.37	ND		08/11/2022 14:50
PFDoS	0.00	0.47	0.00	11.43	ND		08/11/2022 14:50
PFTDA	0.22	0.26	11.03	11.02	ND		08/11/2022 14:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB2_(2-4)DUP
 Lab Sample ID 10618249005
 Lab File ID B220811A_019
 Matrix Solid
 Collected 07/20/2022 12:40
 Received 07/23/2022 11:35
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.04g
 Percent Moisture 15.0859%
 Dry Weight Extracted 4.28g
 Ical ID 220810B02
 CCal File B220811A_017
 Ending CCal File B220811A_025
 Blank File B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.033	0.033	1	375-22-4		08/11/2022 15:10
PFPeA	ND	0.12	0.033	0.033	1	2706-90-3		08/11/2022 15:10
HFPO-DA	ND	0.12	0.032	0.032	1	13252-13-6		08/11/2022 15:10
PFBS	ND	0.10	0.031	0.031	1	375-73-5		08/11/2022 15:10
PFHxA	0.048 J	0.12	0.032	0.032	1	307-24-4		08/11/2022 15:10
4:2 FTS	ND	0.11	0.027	0.027	1	757124-72-4		08/11/2022 15:10
PFPeS	0.035 J	0.11	0.028	0.028	1	2706-91-4		08/11/2022 15:10
PFHpA	ND	0.12	0.041	0.041	1	375-85-9		08/11/2022 15:10
DONA	ND	0.11	0.042	0.042	1	919005-14-4		08/11/2022 15:10
PFHxS	0.39	0.11	0.026	0.026	1	355-46-4		08/11/2022 15:10
PFOA	0.061 J	0.12	0.036	0.036	1	335-67-1		08/11/2022 15:10
6:2 FTS	0.12	0.11	0.048	0.048	1	27619-97-2		08/11/2022 15:10
PFHpS	ND	0.11	0.032	0.032	1	375-92-8		08/11/2022 15:10
PFNA	ND	0.12	0.036	0.036	1	375-95-1		08/11/2022 15:10
PFOSAm	0.065 J	0.12	0.034	0.034	1	754-91-6		08/11/2022 15:10
PFOS	2.3	0.11	0.035	0.035	1	1763-23-1		08/11/2022 15:10
MeFOSA	ND	0.12	0.032	0.032	1	31506-32-8		08/11/2022 15:10
PFDA	ND	0.12	0.027	0.027	1	335-76-2		08/11/2022 15:10
EtFOSAm	ND	0.12	0.030	0.030	1	4151-50-2		08/11/2022 15:10
8:2 FTS	ND	0.11	0.051	0.051	1	39108-34-4		08/11/2022 15:10
9-CI-PF3ON	ND	0.11	0.029	0.029	1	756426-58-1		08/11/2022 15:10
PFNS	ND	0.11	0.041	0.041	1	68259-12-1		08/11/2022 15:10
PFUnDA	ND	0.12	0.035	0.035	1	2058-94-8		08/11/2022 15:10
NMeFOSAA	ND	0.12	0.033	0.033	1	2355-31-9		08/11/2022 15:10
NEtFOSAA	ND	0.12	0.047	0.047	1	2991-50-6		08/11/2022 15:10
PFDS	ND	0.11	0.033	0.033	1	335-77-3		08/11/2022 15:10
PFDOA	ND	0.12	0.038	0.038	1	307-55-1		08/11/2022 15:10
MeFOSE	0.051 J	0.12	0.035	0.035	1	24448-09-7		08/11/2022 15:10
EtFOSE	ND	0.12	0.038	0.038	1	1691-99-2		08/11/2022 15:10
11-CI-PF3OUdS	ND	0.11	0.030	0.030	1	763051-92-9		08/11/2022 15:10
PFTTrDA	ND	0.12	0.037	0.037	1	72629-94-8		08/11/2022 15:10
PFDoS	ND	0.11	0.031	0.031	1	79780-39-5		08/11/2022 15:10
PFTDA	ND	0.12	0.040	0.040	1	376-06-7		08/11/2022 15:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(2-4)DUP	Total Amount Extracted	5.04g
Lab Sample ID	10618249005	Percent Moisture	15.0859%
Lab File ID	B220811A_019	Dry Weight Extracted	4.28g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:40	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.4	120	50-150		08/11/2022 15:10
13C4 PFOA	1.2	1.5	124	50-150		08/11/2022 15:10
13C2 PFDA	1.2	1.4	118	50-150		08/11/2022 15:10
13C4 PFOS	1.1	1.3	113	50-150		08/11/2022 15:10

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.1	92	25-150		08/11/2022 15:10
13C5 PFPeA	1.2	1.1	93	25-150		08/11/2022 15:10
13C3 PFBS	1.1	1.1	98	25-150		08/11/2022 15:10
13C2 4:2FTS	1.1	0.90	83	25-150		08/11/2022 15:10
13C5 PFHxA	1.2	1.1	91	25-150		08/11/2022 15:10
13C4 PFHpA	1.2	0.99	85	25-150		08/11/2022 15:10
13C3 PFHxS	1.1	1.0	94	25-150		08/11/2022 15:10
13C2 6:2FTS	1.1	0.92	83	25-150		08/11/2022 15:10
13C8 PFOA	1.2	1.1	91	25-150		08/11/2022 15:10
13C9 PFNA	1.2	1.1	94	25-150		08/11/2022 15:10
13C8 PFOS	1.1	1.0	94	25-150		08/11/2022 15:10
13C2 8:2FTS	1.1	0.99	89	25-150		08/11/2022 15:10
13C6 PFDA	1.2	1.2	102	25-150		08/11/2022 15:10
d3-MeFOSAA	1.2	1.2	99	25-150		08/11/2022 15:10
13C8 PFOSA	1.2	0.68	58	25-150		08/11/2022 15:10
d5-EtFOSAA	1.2	1.1	95	25-150		08/11/2022 15:10
13C7 PFUdA	1.2	1.2	105	25-150		08/11/2022 15:10
13C2 PFDoA	1.2	1.2	104	25-150		08/11/2022 15:10
13C2 PFTeDA	1.2	0.93	79	25-150		08/11/2022 15:10
13C3 HFPO-DA	1.2	1.1	93	25-150		08/11/2022 15:10
13C2 PFHxDA	1.2	1.0	89	25-150		08/11/2022 15:10
d7-N-MeFOSE	1.2	0.16	14	10-150		08/11/2022 15:10
d9-N-EtFOSE	1.2	0.21	18	10-150		08/11/2022 15:10
d3-N-MeFOSA	1.2	0.052	4	10-150	R	08/11/2022 15:10
d5-N-EtFOSA	1.2	0.058	5	10-150	R	08/11/2022 15:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB2_(2-4)DUP
 Lab Sample ID 10618249005
 Lab File ID B220811A_019
 Matrix Solid
 Collected 07/20/2022 12:40
 Received 07/23/2022 11:35
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.04g
 Percent Moisture 15.0859%
 Dry Weight Extracted 4.28g
 Ical ID 220810B02
 CCal File B220811A_017
 Ending CCal File B220811A_025
 Blank File B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	19		08/11/2022 15:10
13C4 PFOA	N/A	N/A	7.11	7.07	25		08/11/2022 15:10
13C2 PFDA	N/A	N/A	8.39	8.39	30		08/11/2022 15:10
13C4 PFOS	N/A	N/A	8.86	8.88	46		08/11/2022 15:10

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.19	4.23	19		08/11/2022 15:10
13C5 PFPeA	N/A	N/A	5.13	5.10	20		08/11/2022 15:10
13C3 PFBS	N/A	N/A	6.06	6.02	49		08/11/2022 15:10
13C2 4:2FTS	N/A	N/A	5.56	5.51	31		08/11/2022 15:10
13C5 PFHxA	N/A	N/A	5.83	5.78	14		08/11/2022 15:10
13C4 PFHpA	N/A	N/A	6.47	6.42	22		08/11/2022 15:10
13C3 PFHxS	N/A	N/A	7.51	7.47	63		08/11/2022 15:10
13C2 6:2FTS	N/A	N/A	6.77	6.73	41		08/11/2022 15:10
13C8 PFOA	N/A	N/A	7.10	7.06	27		08/11/2022 15:10
13C9 PFNA	N/A	N/A	7.74	7.71	23		08/11/2022 15:10
13C8 PFOS	N/A	N/A	8.86	8.86	43		08/11/2022 15:10
13C2 8:2FTS	N/A	N/A	8.02	8.00	58		08/11/2022 15:10
13C6 PFDA	N/A	N/A	8.39	8.38	31		08/11/2022 15:10
d3-MeFOSAA	N/A	N/A	8.25	8.25	14		08/11/2022 15:10
13C8 PFOSA	N/A	N/A	10.37	10.42	13		08/11/2022 15:10
d5-EtFOSAA	N/A	N/A	8.54	8.54	14		08/11/2022 15:10
13C7 PFUdA	N/A	N/A	9.06	9.07	21		08/11/2022 15:10
13C2 PFDoA	N/A	N/A	9.72	9.71	11		08/11/2022 15:10
13C2 PFTeDA	N/A	N/A	11.03	11.02	12		08/11/2022 15:10
13C3 HFPO-DA	N/A	N/A	6.09	6.04	15		08/11/2022 15:10
13C2 PFHxDA	N/A	N/A	12.19	12.22	22		08/11/2022 15:10
d7-N-MeFOSE	N/A	N/A	12.42	12.44	55		08/11/2022 15:10
d9-N-EtFOSE	N/A	N/A	12.90	12.88	24		08/11/2022 15:10
d3-N-MeFOSA	N/A	N/A	12.63	12.65	43	R	08/11/2022 15:10
d5-N-EtFOSA	N/A	N/A	13.05	13.07	33	R	08/11/2022 15:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB2_(2-4)DUP
 Lab Sample ID 10618249005
 Lab File ID B220811A_019
 Matrix Solid
 Collected 07/20/2022 12:40
 Received 07/23/2022 11:35
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.04g
 Percent Moisture 15.0859%
 Dry Weight Extracted 4.28g
 Ical ID 220810B02
 CCal File B220811A_017
 Ending CCal File B220811A_025
 Blank File B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.23	ND		08/11/2022 15:10
PFPeA	N/A	N/A	5.14	5.15	ND		08/11/2022 15:10
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/11/2022 15:10
PFBS	0.48	0.47	6.07	6.02	ND		08/11/2022 15:10
PFHxA	0.07	0.08	5.84	5.81	80	J	08/11/2022 15:10
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 15:10
PFPeS	0.30	0.42	6.81	6.79	49	J	08/11/2022 15:10
PFHpA	0.32	0.33	6.47	6.44	ND		08/11/2022 15:10
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 15:10
PFHxS	0.38	0.41	7.51	7.49	18		08/11/2022 15:10
PFOA	0.36	0.35	7.11	7.08	98	J	08/11/2022 15:10
6:2 FTS	0.83	0.88	6.78	6.74	40		08/11/2022 15:10
PFHpS	0.40	0.37	8.20	8.20	ND		08/11/2022 15:10
PFNA	0.13	0.14	7.75	7.73	ND		08/11/2022 15:10
PFOSAm	N/A	N/A	10.38	10.44	33	J	08/11/2022 15:10
PFOS	0.38	0.39	8.87	8.90	37		08/11/2022 15:10
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 15:10
PFDA	0.15	0.17	8.40	8.40	ND		08/11/2022 15:10
EtFOSAm	0.00	0.56	0.00	13.10	ND		08/11/2022 15:10
8:2 FTS	1.30	0.96	8.02	8.02	ND		08/11/2022 15:10
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 15:10
PFNS	0.52	0.51	9.54	9.58	ND		08/11/2022 15:10
PFUnDA	0.15	0.14	9.06	9.05	ND		08/11/2022 15:10
NMeFOSAA	0.76	0.84	8.26	8.26	ND		08/11/2022 15:10
NEtFOSAA	0.88	0.69	8.55	8.55	ND		08/11/2022 15:10
PFDS	0.38	0.35	10.20	10.19	ND		08/11/2022 15:10
PFDOA	0.21	0.18	9.72	9.72	ND		08/11/2022 15:10
MeFOSE	N/A	N/A	12.46	12.45	35	J	08/11/2022 15:10
EtFOSE	0.00	0.00	0.00	12.92	ND		08/11/2022 15:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 15:10
PFTTrDA	0.15	0.16	10.39	10.37	ND		08/11/2022 15:10
PFDoS	0.00	0.47	0.00	11.43	ND		08/11/2022 15:10
PFTDA	0.21	0.26	11.03	11.02	ND		08/11/2022 15:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(4-6)	Total Amount Extracted	5.25g
Lab Sample ID	10618249006	Percent Moisture	20.4501%
Lab File ID	B220811A_020	Dry Weight Extracted	4.17g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:45	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.034	0.034	1	375-22-4		08/11/2022 15:30
PFPeA	0.039 J	0.12	0.034	0.034	1	2706-90-3		08/11/2022 15:30
HFPO-DA	ND	0.12	0.033	0.033	1	13252-13-6		08/11/2022 15:30
PFBS	ND	0.11	0.031	0.031	1	375-73-5		08/11/2022 15:30
PFHxA	0.064 J	0.12	0.033	0.033	1	307-24-4		08/11/2022 15:30
4:2 FTS	ND	0.11	0.028	0.028	1	757124-72-4		08/11/2022 15:30
PFPeS	0.040 IJ	0.11	0.029	0.029	1	2706-91-4		08/11/2022 15:30
PFHpA	ND	0.12	0.042	0.042	1	375-85-9		08/11/2022 15:30
DONA	ND	0.11	0.043	0.043	1	919005-14-4		08/11/2022 15:30
PFHxS	0.30	0.11	0.026	0.026	1	355-46-4		08/11/2022 15:30
PFOA	0.049 J	0.12	0.037	0.037	1	335-67-1		08/11/2022 15:30
6:2 FTS	0.13	0.11	0.050	0.050	1	27619-97-2		08/11/2022 15:30
PFHpS	0.041 J	0.11	0.033	0.033	1	375-92-8		08/11/2022 15:30
PFNA	ND	0.12	0.037	0.037	1	375-95-1		08/11/2022 15:30
PFOSAm	0.11 J	0.12	0.035	0.035	1	754-91-6		08/11/2022 15:30
PFOS	3.0	0.11	0.035	0.035	1	1763-23-1		08/11/2022 15:30
MeFOSA	ND	0.12	0.033	0.033	1	31506-32-8		08/11/2022 15:30
PFDA	0.032 J	0.12	0.027	0.027	1	335-76-2		08/11/2022 15:30
EtFOSAm	ND	0.12	0.031	0.031	1	4151-50-2		08/11/2022 15:30
8:2 FTS	0.11 J	0.11	0.053	0.053	1	39108-34-4		08/11/2022 15:30
9-CI-PF3ON	ND	0.11	0.030	0.030	1	756426-58-1		08/11/2022 15:30
PFNS	ND	0.11	0.042	0.042	1	68259-12-1		08/11/2022 15:30
PFUnDA	0.036 J	0.12	0.036	0.036	1	2058-94-8		08/11/2022 15:30
NMeFOSAA	0.14	0.12	0.034	0.034	1	2355-31-9		08/11/2022 15:30
NEtFOSAA	0.14	0.12	0.048	0.048	1	2991-50-6		08/11/2022 15:30
PFDS	0.15	0.12	0.034	0.034	1	335-77-3		08/11/2022 15:30
PFDOA	0.080 J	0.12	0.039	0.039	1	307-55-1		08/11/2022 15:30
MeFOSE	0.068 J	0.12	0.036	0.036	1	24448-09-7		08/11/2022 15:30
EtFOSE	ND	0.12	0.039	0.039	1	1691-99-2		08/11/2022 15:30
11-CI-PF3OUdS	ND	0.11	0.030	0.030	1	763051-92-9		08/11/2022 15:30
PFTTrDA	0.041 J	0.12	0.038	0.038	1	72629-94-8		08/11/2022 15:30
PFDoS	ND	0.12	0.031	0.031	1	79780-39-5		08/11/2022 15:30
PFTDA	ND	0.12	0.041	0.041	1	376-06-7		08/11/2022 15:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(4-6)	Total Amount Extracted	5.25g
Lab Sample ID	10618249006	Percent Moisture	20.4501%
Lab File ID	B220811A_020	Dry Weight Extracted	4.17g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:45	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.5	125	50-150		08/11/2022 15:30
13C4 PFOA	1.2	1.6	138	50-150		08/11/2022 15:30
13C2 PFDA	1.2	1.5	128	50-150		08/11/2022 15:30
13C4 PFOS	1.1	1.4	126	50-150		08/11/2022 15:30

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.1	92	25-150		08/11/2022 15:30
13C5 PFPeA	1.2	1.1	95	25-150		08/11/2022 15:30
13C3 PFBS	1.1	1.1	101	25-150		08/11/2022 15:30
13C2 4:2FTS	1.1	1.1	99	25-150		08/11/2022 15:30
13C5 PFHxA	1.2	1.1	90	25-150		08/11/2022 15:30
13C4 PFHpA	1.2	1.2	98	25-150		08/11/2022 15:30
13C3 PFHxS	1.1	1.1	101	25-150		08/11/2022 15:30
13C2 6:2FTS	1.1	1.0	90	25-150		08/11/2022 15:30
13C8 PFOA	1.2	1.3	107	25-150		08/11/2022 15:30
13C9 PFNA	1.2	1.1	93	25-150		08/11/2022 15:30
13C8 PFOS	1.1	1.0	90	25-150		08/11/2022 15:30
13C2 8:2FTS	1.1	1.7	145	25-150		08/11/2022 15:30
13C6 PFDA	1.2	1.1	95	25-150		08/11/2022 15:30
d3-MeFOSAA	1.2	1.3	107	25-150		08/11/2022 15:30
13C8 PFOSA	1.2	1.1	95	25-150		08/11/2022 15:30
d5-EtFOSAA	1.2	1.3	112	25-150		08/11/2022 15:30
13C7 PFUdA	1.2	1.3	108	25-150		08/11/2022 15:30
13C2 PFDoA	1.2	1.3	112	25-150		08/11/2022 15:30
13C2 PFTeDA	1.2	1.6	131	25-150		08/11/2022 15:30
13C3 HFPO-DA	1.2	1.00	83	25-150		08/11/2022 15:30
13C2 PFHxDA	1.2	1.6	131	25-150		08/11/2022 15:30
d7-N-MeFOSE	1.2	0.70	58	10-150		08/11/2022 15:30
d9-N-EtFOSE	1.2	0.74	62	10-150		08/11/2022 15:30
d3-N-MeFOSA	1.2	0.14	12	10-150		08/11/2022 15:30
d5-N-EtFOSA	1.2	0.15	12	10-150		08/11/2022 15:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(4-6)	Total Amount Extracted	5.25g
Lab Sample ID	10618249006	Percent Moisture	20.4501%
Lab File ID	B220811A_020	Dry Weight Extracted	4.17g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:45	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	21		08/11/2022 15:30
13C4 PFOA	N/A	N/A	7.10	7.07	19		08/11/2022 15:30
13C2 PFDA	N/A	N/A	8.39	8.39	19		08/11/2022 15:30
13C4 PFOS	N/A	N/A	8.85	8.88	19		08/11/2022 15:30

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.23	22		08/11/2022 15:30
13C5 PFPeA	N/A	N/A	5.13	5.10	20		08/11/2022 15:30
13C3 PFBS	N/A	N/A	6.06	6.02	34		08/11/2022 15:30
13C2 4:2FTS	N/A	N/A	5.56	5.51	27		08/11/2022 15:30
13C5 PFHxA	N/A	N/A	5.83	5.78	15		08/11/2022 15:30
13C4 PFHpA	N/A	N/A	6.46	6.42	21		08/11/2022 15:30
13C3 PFHxS	N/A	N/A	7.50	7.47	45		08/11/2022 15:30
13C2 6:2FTS	N/A	N/A	6.77	6.73	24		08/11/2022 15:30
13C8 PFOA	N/A	N/A	7.10	7.06	21		08/11/2022 15:30
13C9 PFNA	N/A	N/A	7.74	7.71	18		08/11/2022 15:30
13C8 PFOS	N/A	N/A	8.86	8.86	25		08/11/2022 15:30
13C2 8:2FTS	N/A	N/A	8.02	8.00	36		08/11/2022 15:30
13C6 PFDA	N/A	N/A	8.39	8.38	19		08/11/2022 15:30
d3-MeFOSAA	N/A	N/A	8.25	8.25	18		08/11/2022 15:30
13C8 PFOSA	N/A	N/A	10.37	10.42	10		08/11/2022 15:30
d5-EtFOSAA	N/A	N/A	8.53	8.54	13		08/11/2022 15:30
13C7 PFUdA	N/A	N/A	9.05	9.07	24		08/11/2022 15:30
13C2 PFDoA	N/A	N/A	9.72	9.71	10		08/11/2022 15:30
13C2 PFTeDA	N/A	N/A	11.02	11.02	18		08/11/2022 15:30
13C3 HFPO-DA	N/A	N/A	6.09	6.04	13		08/11/2022 15:30
13C2 PFHxDA	N/A	N/A	12.19	12.22	25		08/11/2022 15:30
d7-N-MeFOSE	N/A	N/A	12.43	12.44	65		08/11/2022 15:30
d9-N-EtFOSE	N/A	N/A	12.90	12.88	31		08/11/2022 15:30
d3-N-MeFOSA	N/A	N/A	12.63	12.65	42		08/11/2022 15:30
d5-N-EtFOSA	N/A	N/A	13.06	13.07	44		08/11/2022 15:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(4-6)	Total Amount Extracted	5.25g
Lab Sample ID	10618249006	Percent Moisture	20.4501%
Lab File ID	B220811A_020	Dry Weight Extracted	4.17g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:45	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.23	ND		08/11/2022 15:30
PFPeA	N/A	N/A	5.14	5.15	42	J	08/11/2022 15:30
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/11/2022 15:30
PFBS	0.42	0.47	6.06	6.02	ND		08/11/2022 15:30
PFHxA	0.07	0.08	5.84	5.81	64	J	08/11/2022 15:30
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 15:30
PFPeS	0.20	0.42	6.81	6.79	41	IJ	08/11/2022 15:30
PFHpA	0.41	0.33	6.48	6.44	ND		08/11/2022 15:30
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 15:30
PFHxS	0.36	0.41	7.51	7.49	11		08/11/2022 15:30
PFOA	0.40	0.35	7.11	7.08	81	J	08/11/2022 15:30
6:2 FTS	0.89	0.88	6.77	6.74	57		08/11/2022 15:30
PFHpS	0.24	0.37	8.20	8.20	35	J	08/11/2022 15:30
PFNA	0.13	0.14	7.75	7.73	ND		08/11/2022 15:30
PFOSAm	N/A	N/A	10.38	10.44	52	J	08/11/2022 15:30
PFOS	0.37	0.39	8.87	8.90	23		08/11/2022 15:30
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 15:30
PFDA	0.19	0.17	8.40	8.40	13	J	08/11/2022 15:30
EtFOSAm	0.00	0.56	0.00	13.10	ND		08/11/2022 15:30
8:2 FTS	1.10	0.96	8.03	8.02	83	J	08/11/2022 15:30
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 15:30
PFNS	0.33	0.51	9.54	9.54	ND		08/11/2022 15:30
PFUnDA	0.11	0.14	9.06	9.05	15	J	08/11/2022 15:30
NMeFOSAA	0.87	0.84	8.26	8.26	40		08/11/2022 15:30
NEtFOSAA	0.57	0.69	8.55	8.55	41		08/11/2022 15:30
PFDS	0.36	0.35	10.20	10.19	91		08/11/2022 15:30
PFDOA	0.17	0.18	9.72	9.72	26	J	08/11/2022 15:30
MeFOSE	N/A	N/A	12.47	12.45	60	J	08/11/2022 15:30
EtFOSE	0.00	0.00	12.93	12.92	ND		08/11/2022 15:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 15:30
PFTTrDA	0.14	0.16	10.38	10.37	14	J	08/11/2022 15:30
PFDoS	0.72	0.47	11.44	11.43	ND		08/11/2022 15:30
PFTDA	0.25	0.26	11.03	11.02	ND		08/11/2022 15:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(6-8)	Total Amount Extracted	5.11g
Lab Sample ID	10618249007	Percent Moisture	22.4012%
Lab File ID	B220811A_021	Dry Weight Extracted	3.96g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:50	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.036	0.036	1	375-22-4		08/11/2022 15:50
PFPeA	0.041 J	0.13	0.036	0.036	1	2706-90-3		08/11/2022 15:50
HFPO-DA	ND	0.13	0.035	0.035	1	13252-13-6		08/11/2022 15:50
PFBS	ND	0.11	0.033	0.033	1	375-73-5		08/11/2022 15:50
PFHxA	ND	0.13	0.035	0.035	1	307-24-4		08/11/2022 15:50
4:2 FTS	ND	0.12	0.029	0.029	1	757124-72-4		08/11/2022 15:50
PFPeS	ND	0.12	0.030	0.030	1	2706-91-4		08/11/2022 15:50
PFHpA	ND	0.13	0.044	0.044	1	375-85-9		08/11/2022 15:50
DONA	ND	0.12	0.046	0.046	1	919005-14-4		08/11/2022 15:50
PFHxS	0.077 J	0.11	0.028	0.028	1	355-46-4		08/11/2022 15:50
PFOA	ND	0.13	0.039	0.039	1	335-67-1		08/11/2022 15:50
6:2 FTS	ND	0.12	0.052	0.052	1	27619-97-2		08/11/2022 15:50
PFHpS	ND	0.12	0.035	0.035	1	375-92-8		08/11/2022 15:50
PFNA	ND	0.13	0.039	0.039	1	375-95-1		08/11/2022 15:50
PFOSAm	ND	0.13	0.037	0.037	1	754-91-6		08/11/2022 15:50
PFOS	0.40	0.12	0.037	0.037	1	1763-23-1		08/11/2022 15:50
MeFOSA	ND	0.13	0.034	0.034	1	31506-32-8		08/11/2022 15:50
PFDA	ND	0.13	0.029	0.029	1	335-76-2		08/11/2022 15:50
EtFOSAm	ND	0.13	0.032	0.032	1	4151-50-2		08/11/2022 15:50
8:2 FTS	ND	0.12	0.055	0.055	1	39108-34-4		08/11/2022 15:50
9-CI-PF3ON	ND	0.12	0.032	0.032	1	756426-58-1		08/11/2022 15:50
PFNS	ND	0.12	0.044	0.044	1	68259-12-1		08/11/2022 15:50
PFUnDA	ND	0.13	0.038	0.038	1	2058-94-8		08/11/2022 15:50
NMeFOSAA	ND	0.13	0.035	0.035	1	2355-31-9		08/11/2022 15:50
NEtFOSAA	0.21	0.13	0.051	0.051	1	2991-50-6		08/11/2022 15:50
PFDS	ND	0.12	0.036	0.036	1	335-77-3		08/11/2022 15:50
PFDOA	ND	0.13	0.042	0.042	1	307-55-1		08/11/2022 15:50
MeFOSE	ND	0.13	0.038	0.038	1	24448-09-7		08/11/2022 15:50
EtFOSE	ND	0.13	0.041	0.041	1	1691-99-2		08/11/2022 15:50
11-CI-PF3OUdS	ND	0.12	0.032	0.032	1	763051-92-9		08/11/2022 15:50
PFTTrDA	ND	0.13	0.040	0.040	1	72629-94-8		08/11/2022 15:50
PFDoS	ND	0.12	0.033	0.033	1	79780-39-5		08/11/2022 15:50
PFTDA	ND	0.13	0.043	0.043	1	376-06-7		08/11/2022 15:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(6-8)	Total Amount Extracted	5.11g
Lab Sample ID	10618249007	Percent Moisture	22.4012%
Lab File ID	B220811A_021	Dry Weight Extracted	3.96g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:50	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.4	113	50-150		08/11/2022 15:50
13C4 PFOA	1.3	1.5	116	50-150		08/11/2022 15:50
13C2 PFDA	1.3	1.4	111	50-150		08/11/2022 15:50
13C4 PFOS	1.2	1.4	114	50-150		08/11/2022 15:50

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.0	83	25-150		08/11/2022 15:50
13C5 PFPeA	1.3	1.1	84	25-150		08/11/2022 15:50
13C3 PFBS	1.2	0.97	83	25-150		08/11/2022 15:50
13C2 4:2FTS	1.2	1.00	85	25-150		08/11/2022 15:50
13C5 PFHxA	1.3	1.0	81	25-150		08/11/2022 15:50
13C4 PFHpA	1.3	1.0	81	25-150		08/11/2022 15:50
13C3 PFHxS	1.2	1.0	87	25-150		08/11/2022 15:50
13C2 6:2FTS	1.2	0.88	74	25-150		08/11/2022 15:50
13C8 PFOA	1.3	1.1	91	25-150		08/11/2022 15:50
13C9 PFNA	1.3	1.1	85	25-150		08/11/2022 15:50
13C8 PFOS	1.2	0.96	79	25-150		08/11/2022 15:50
13C2 8:2FTS	1.2	1.1	89	25-150		08/11/2022 15:50
13C6 PFDA	1.3	1.0	82	25-150		08/11/2022 15:50
d3-MeFOSAA	1.3	1.2	96	25-150		08/11/2022 15:50
13C8 PFOSA	1.3	0.79	62	25-150		08/11/2022 15:50
d5-EtFOSAA	1.3	1.2	92	25-150		08/11/2022 15:50
13C7 PFUdA	1.3	1.2	92	25-150		08/11/2022 15:50
13C2 PFDoA	1.3	1.3	103	25-150		08/11/2022 15:50
13C2 PFTeDA	1.3	1.3	104	25-150		08/11/2022 15:50
13C3 HFPO-DA	1.3	1.1	85	25-150		08/11/2022 15:50
13C2 PFHxDA	1.3	1.2	93	25-150		08/11/2022 15:50
d7-N-MeFOSE	1.3	0.44	35	10-150		08/11/2022 15:50
d9-N-EtFOSE	1.3	0.48	38	10-150		08/11/2022 15:50
d3-N-MeFOSA	1.3	0.067	5	10-150	R	08/11/2022 15:50
d5-N-EtFOSA	1.3	0.075	6	10-150	R	08/11/2022 15:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(6-8)	Total Amount Extracted	5.11g
Lab Sample ID	10618249007	Percent Moisture	22.4012%
Lab File ID	B220811A_021	Dry Weight Extracted	3.96g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:50	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	15		08/11/2022 15:50
13C4 PFOA	N/A	N/A	7.10	7.07	21		08/11/2022 15:50
13C2 PFDA	N/A	N/A	8.38	8.39	17		08/11/2022 15:50
13C4 PFOS	N/A	N/A	8.85	8.88	28		08/11/2022 15:50

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.19	4.23	17		08/11/2022 15:50
13C5 PFPeA	N/A	N/A	5.13	5.10	16		08/11/2022 15:50
13C3 PFBS	N/A	N/A	6.06	6.02	34		08/11/2022 15:50
13C2 4:2FTS	N/A	N/A	5.56	5.51	23		08/11/2022 15:50
13C5 PFHxA	N/A	N/A	5.83	5.78	11		08/11/2022 15:50
13C4 PFHpA	N/A	N/A	6.46	6.42	15		08/11/2022 15:50
13C3 PFHxS	N/A	N/A	7.50	7.47	54		08/11/2022 15:50
13C2 6:2FTS	N/A	N/A	6.77	6.73	22		08/11/2022 15:50
13C8 PFOA	N/A	N/A	7.10	7.06	21		08/11/2022 15:50
13C9 PFNA	N/A	N/A	7.74	7.71	19		08/11/2022 15:50
13C8 PFOS	N/A	N/A	8.85	8.86	25		08/11/2022 15:50
13C2 8:2FTS	N/A	N/A	8.02	8.00	33		08/11/2022 15:50
13C6 PFDA	N/A	N/A	8.39	8.38	13		08/11/2022 15:50
d3-MeFOSAA	N/A	N/A	8.25	8.25	13		08/11/2022 15:50
13C8 PFOSA	N/A	N/A	10.35	10.42	12		08/11/2022 15:50
d5-EtFOSAA	N/A	N/A	8.53	8.54	21		08/11/2022 15:50
13C7 PFUdA	N/A	N/A	9.04	9.07	18		08/11/2022 15:50
13C2 PFDoA	N/A	N/A	9.71	9.71	11		08/11/2022 15:50
13C2 PFTeDA	N/A	N/A	11.00	11.02	18		08/11/2022 15:50
13C3 HFPO-DA	N/A	N/A	6.09	6.04	13		08/11/2022 15:50
13C2 PFHxDA	N/A	N/A	12.18	12.22	15		08/11/2022 15:50
d7-N-MeFOSE	N/A	N/A	12.41	12.44	55		08/11/2022 15:50
d9-N-EtFOSE	N/A	N/A	12.89	12.88	27		08/11/2022 15:50
d3-N-MeFOSA	N/A	N/A	12.63	12.65	29	R	08/11/2022 15:50
d5-N-EtFOSA	N/A	N/A	13.05	13.07	26	R	08/11/2022 15:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB2_(6-8)	Total Amount Extracted	5.11g
Lab Sample ID	10618249007	Percent Moisture	22.4012%
Lab File ID	B220811A_021	Dry Weight Extracted	3.96g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 12:50	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.23	ND		08/11/2022 15:50
PFPeA	N/A	N/A	5.17	5.15	16	J	08/11/2022 15:50
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/11/2022 15:50
PFBS	0.25	0.47	6.07	6.02	ND		08/11/2022 15:50
PFHxA	0.06	0.08	5.83	5.81	ND		08/11/2022 15:50
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 15:50
PFPeS	0.18	0.42	6.81	6.79	ND		08/11/2022 15:50
PFHpA	0.27	0.33	6.48	6.44	ND		08/11/2022 15:50
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 15:50
PFHxS	0.24	0.41	7.51	7.49	25	J	08/11/2022 15:50
PFOA	0.32	0.35	7.11	7.08	ND		08/11/2022 15:50
6:2 FTS	1.30	0.88	6.77	6.74	ND		08/11/2022 15:50
PFHpS	0.34	0.37	8.19	8.20	ND		08/11/2022 15:50
PFNA	0.10	0.14	7.75	7.73	ND		08/11/2022 15:50
PFOSAm	N/A	N/A	10.36	10.44	ND		08/11/2022 15:50
PFOS	0.34	0.39	8.86	8.90	12		08/11/2022 15:50
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 15:50
PFDA	0.00	0.17	0.00	8.40	ND		08/11/2022 15:50
EtFOSAm	0.00	0.56	0.00	13.10	ND		08/11/2022 15:50
8:2 FTS	6.60	0.96	8.02	8.02	ND		08/11/2022 15:50
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 15:50
PFNS	0.00	0.51	0.00	9.58	ND		08/11/2022 15:50
PFUnDA	0.07	0.14	9.05	9.05	ND		08/11/2022 15:50
NMeFOSAA	0.61	0.84	8.25	8.26	ND		08/11/2022 15:50
NEtFOSAA	0.66	0.69	8.54	8.55	40		08/11/2022 15:50
PFDS	0.32	0.35	10.18	10.19	ND		08/11/2022 15:50
PFDOA	0.17	0.18	9.71	9.72	ND		08/11/2022 15:50
MeFOSE	N/A	N/A	0.00	12.45	ND		08/11/2022 15:50
EtFOSE	0.00	0.00	0.00	12.92	ND		08/11/2022 15:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 15:50
PFTTrDA	0.23	0.16	10.37	10.37	ND		08/11/2022 15:50
PFDoS	0.00	0.47	0.00	11.43	ND		08/11/2022 15:50
PFTDA	0.14	0.26	11.02	11.02	ND		08/11/2022 15:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(0-2)	Total Amount Extracted	5.18g
Lab Sample ID	10618249008	Percent Moisture	27.3205%
Lab File ID	B220811A_022	Dry Weight Extracted	3.77g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:15	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.12 J	0.13	0.038	0.038	1	375-22-4		08/11/2022 16:10
PFPeA	0.42	0.13	0.038	0.038	1	2706-90-3		08/11/2022 16:10
HFPO-DA	ND	0.13	0.037	0.037	1	13252-13-6		08/11/2022 16:10
PFBS	0.069 J	0.12	0.035	0.035	1	375-73-5		08/11/2022 16:10
PFHxA	0.32	0.13	0.037	0.037	1	307-24-4		08/11/2022 16:10
4:2 FTS	ND	0.12	0.031	0.031	1	757124-72-4		08/11/2022 16:10
PFPeS	0.066 J	0.12	0.032	0.032	1	2706-91-4		08/11/2022 16:10
PFHpA	0.15	0.13	0.046	0.046	1	375-85-9		08/11/2022 16:10
DONA	ND	0.13	0.048	0.048	1	919005-14-4		08/11/2022 16:10
PFHxS	1.0	0.12	0.029	0.029	1	355-46-4		08/11/2022 16:10
PFOA	0.24	0.13	0.041	0.041	1	335-67-1		08/11/2022 16:10
6:2 FTS	0.10 J	0.13	0.055	0.055	1	27619-97-2		08/11/2022 16:10
PFHpS	0.048 J	0.13	0.037	0.037	1	375-92-8		08/11/2022 16:10
PFNA	0.12 J	0.13	0.041	0.041	1	375-95-1		08/11/2022 16:10
PFOSAm	0.057 J	0.13	0.039	0.039	1	754-91-6		08/11/2022 16:10
PFOS	4.6	0.12	0.039	0.039	1	1763-23-1		08/11/2022 16:10
MeFOSA	ND	0.13	0.036	0.036	1	31506-32-8		08/11/2022 16:10
PFDA	0.18	0.13	0.030	0.030	1	335-76-2		08/11/2022 16:10
EtFOSAm	ND	0.13	0.034	0.034	1	4151-50-2		08/11/2022 16:10
8:2 FTS	ND	0.13	0.058	0.058	1	39108-34-4		08/11/2022 16:10
9-CI-PF3ON	ND	0.12	0.033	0.033	1	756426-58-1		08/11/2022 16:10
PFNS	ND	0.13	0.046	0.046	1	68259-12-1		08/11/2022 16:10
PFUnDA	0.093 J	0.13	0.040	0.040	1	2058-94-8		08/11/2022 16:10
NMeFOSAA	0.071 J	0.13	0.037	0.037	1	2355-31-9		08/11/2022 16:10
NEtFOSAA	0.074 J	0.13	0.053	0.053	1	2991-50-6		08/11/2022 16:10
PFDS	0.16	0.13	0.037	0.037	1	335-77-3		08/11/2022 16:10
PFDOA	0.21	0.13	0.044	0.044	1	307-55-1		08/11/2022 16:10
MeFOSE	ND	0.13	0.040	0.040	1	24448-09-7		08/11/2022 16:10
EtFOSE	ND	0.13	0.043	0.043	1	1691-99-2		08/11/2022 16:10
11-CI-PF3OUdS	ND	0.13	0.034	0.034	1	763051-92-9		08/11/2022 16:10
PFTTrDA	0.066 J	0.13	0.042	0.042	1	72629-94-8		08/11/2022 16:10
PFDoS	ND	0.13	0.035	0.035	1	79780-39-5		08/11/2022 16:10
PFTDA	0.093 J	0.13	0.046	0.046	1	376-06-7		08/11/2022 16:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(0-2)	Total Amount Extracted	5.18g
Lab Sample ID	10618249008	Percent Moisture	27.3205%
Lab File ID	B220811A_022	Dry Weight Extracted	3.77g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:15	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.7	125	50-150		08/11/2022 16:10
13C4 PFOA	1.3	1.8	136	50-150		08/11/2022 16:10
13C2 PFDA	1.3	1.6	119	50-150		08/11/2022 16:10
13C4 PFOS	1.3	1.6	122	50-150		08/11/2022 16:10

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.3	99	25-150		08/11/2022 16:10
13C5 PFPeA	1.3	1.4	102	25-150		08/11/2022 16:10
13C3 PFBS	1.2	1.2	101	25-150		08/11/2022 16:10
13C2 4:2FTS	1.2	1.3	107	25-150		08/11/2022 16:10
13C5 PFHxA	1.3	1.3	95	25-150		08/11/2022 16:10
13C4 PFHpA	1.3	1.3	95	25-150		08/11/2022 16:10
13C3 PFHxS	1.3	1.3	102	25-150		08/11/2022 16:10
13C2 6:2FTS	1.3	1.3	101	25-150		08/11/2022 16:10
13C8 PFOA	1.3	1.4	106	25-150		08/11/2022 16:10
13C9 PFNA	1.3	1.3	94	25-150		08/11/2022 16:10
13C8 PFOS	1.3	1.2	93	25-150		08/11/2022 16:10
13C2 8:2FTS	1.3	1.5	121	25-150		08/11/2022 16:10
13C6 PFDA	1.3	1.5	111	25-150		08/11/2022 16:10
d3-MeFOSAA	1.3	1.5	110	25-150		08/11/2022 16:10
13C8 PFOSA	1.3	0.83	63	25-150		08/11/2022 16:10
d5-EtFOSAA	1.3	1.5	113	25-150		08/11/2022 16:10
13C7 PFUdA	1.3	1.3	98	25-150		08/11/2022 16:10
13C2 PFDoA	1.3	1.6	117	25-150		08/11/2022 16:10
13C2 PFTeDA	1.3	1.5	112	25-150		08/11/2022 16:10
13C3 HFPO-DA	1.3	1.3	95	25-150		08/11/2022 16:10
13C2 PFHxDA	1.3	1.4	102	25-150		08/11/2022 16:10
d7-N-MeFOSE	1.3	0.44	33	10-150		08/11/2022 16:10
d9-N-EtFOSE	1.3	0.50	38	10-150		08/11/2022 16:10
d3-N-MeFOSA	1.3	0.13	9	10-150	R	08/11/2022 16:10
d5-N-EtFOSA	1.3	0.14	11	10-150		08/11/2022 16:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(0-2)	Total Amount Extracted	5.18g
Lab Sample ID	10618249008	Percent Moisture	27.3205%
Lab File ID	B220811A_022	Dry Weight Extracted	3.77g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:15	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	20		08/11/2022 16:10
13C4 PFOA	N/A	N/A	7.11	7.07	20		08/11/2022 16:10
13C2 PFDA	N/A	N/A	8.39	8.39	19		08/11/2022 16:10
13C4 PFOS	N/A	N/A	8.86	8.88	28		08/11/2022 16:10

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.23	19		08/11/2022 16:10
13C5 PFPeA	N/A	N/A	5.12	5.10	20		08/11/2022 16:10
13C3 PFBS	N/A	N/A	6.06	6.02	32		08/11/2022 16:10
13C2 4:2FTS	N/A	N/A	5.56	5.51	22		08/11/2022 16:10
13C5 PFHxA	N/A	N/A	5.83	5.78	15		08/11/2022 16:10
13C4 PFHpA	N/A	N/A	6.47	6.42	14		08/11/2022 16:10
13C3 PFHxS	N/A	N/A	7.51	7.47	57		08/11/2022 16:10
13C2 6:2FTS	N/A	N/A	6.78	6.78	23		08/11/2022 16:10
13C8 PFOA	N/A	N/A	7.11	7.06	29		08/11/2022 16:10
13C9 PFNA	N/A	N/A	7.74	7.71	18		08/11/2022 16:10
13C8 PFOS	N/A	N/A	8.86	8.86	33		08/11/2022 16:10
13C2 8:2FTS	N/A	N/A	8.02	8.00	49		08/11/2022 16:10
13C6 PFDA	N/A	N/A	8.39	8.38	19		08/11/2022 16:10
d3-MeFOSAA	N/A	N/A	8.25	8.25	23		08/11/2022 16:10
13C8 PFOSA	N/A	N/A	10.36	10.42	11		08/11/2022 16:10
d5-EtFOSAA	N/A	N/A	8.54	8.54	13		08/11/2022 16:10
13C7 PFUdA	N/A	N/A	9.05	9.07	18		08/11/2022 16:10
13C2 PFDoA	N/A	N/A	9.72	9.71	10		08/11/2022 16:10
13C2 PFTeDA	N/A	N/A	11.02	11.02	15		08/11/2022 16:10
13C3 HFPO-DA	N/A	N/A	6.09	6.04	17		08/11/2022 16:10
13C2 PFHxDA	N/A	N/A	12.19	12.22	17		08/11/2022 16:10
d7-N-MeFOSE	N/A	N/A	12.42	12.44	42		08/11/2022 16:10
d9-N-EtFOSE	N/A	N/A	12.90	12.88	24		08/11/2022 16:10
d3-N-MeFOSA	N/A	N/A	12.63	12.65	40	R	08/11/2022 16:10
d5-N-EtFOSA	N/A	N/A	13.05	13.07	45		08/11/2022 16:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(0-2)	Total Amount Extracted	5.18g
Lab Sample ID	10618249008	Percent Moisture	27.3205%
Lab File ID	B220811A_022	Dry Weight Extracted	3.77g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:15	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.18	4.23	51	J	08/11/2022 16:10
PFPeA	N/A	N/A	5.13	5.15	16		08/11/2022 16:10
HFPO-DA	0.56	0.26	6.11	6.07	ND		08/11/2022 16:10
PFBS	0.37	0.47	6.07	6.02	31	J	08/11/2022 16:10
PFHxA	0.08	0.08	5.84	5.81	11		08/11/2022 16:10
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 16:10
PFPeS	0.37	0.42	6.81	6.79	37	J	08/11/2022 16:10
PFHpA	0.34	0.33	6.48	6.44	29		08/11/2022 16:10
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 16:10
PFHxS	0.31	0.41	7.51	7.49	15		08/11/2022 16:10
PFOA	0.37	0.35	7.11	7.08	15		08/11/2022 16:10
6:2 FTS	0.90	0.88	6.78	6.74	38	J	08/11/2022 16:10
PFHpS	0.40	0.37	8.20	8.20	49	J	08/11/2022 16:10
PFNA	0.12	0.14	7.75	7.73	22	J	08/11/2022 16:10
PFOSAm	N/A	N/A	10.37	10.44	34	J	08/11/2022 16:10
PFOS	0.37	0.39	8.87	8.90	36		08/11/2022 16:10
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 16:10
PFDA	0.18	0.17	8.40	8.40	29		08/11/2022 16:10
EtFOSAm	0.00	0.56	0.00	13.10	ND		08/11/2022 16:10
8:2 FTS	1.10	0.96	8.03	8.02	ND		08/11/2022 16:10
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 16:10
PFNS	0.50	0.51	9.54	9.58	ND		08/11/2022 16:10
PFUnDA	0.13	0.14	9.06	9.05	21	J	08/11/2022 16:10
NMeFOSAA	0.85	0.84	8.26	8.26	75	J	08/11/2022 16:10
NEtFOSAA	0.65	0.69	8.55	8.55	40	J	08/11/2022 16:10
PFDS	0.36	0.35	10.20	10.19	14		08/11/2022 16:10
PFDOA	0.20	0.18	9.72	9.72	39		08/11/2022 16:10
MeFOSE	N/A	N/A	12.46	12.45	ND		08/11/2022 16:10
EtFOSE	0.00	0.00	12.93	12.92	ND		08/11/2022 16:10
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 16:10
PFTTrDA	0.17	0.16	10.38	10.37	17	J	08/11/2022 16:10
PFDoS	0.69	0.47	11.43	11.43	ND		08/11/2022 16:10
PFTDA	0.28	0.26	11.03	11.02	26	J	08/11/2022 16:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(2-4)	Total Amount Extracted	5.24g
Lab Sample ID	10618249009	Percent Moisture	16.7677%
Lab File ID	B220810E_004	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:20	CCal File	B220810E_002
Received	07/23/2022 11:35	Ending CCal File	B220810E_014
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.032	0.032	1	375-22-4		08/11/2022 00:09
PFPeA	0.11 J	0.11	0.033	0.033	1	2706-90-3		08/11/2022 00:09
HFPO-DA	ND	0.11	0.032	0.032	1	13252-13-6		08/11/2022 00:09
PFBS	0.035 J	0.10	0.030	0.030	1	375-73-5		08/11/2022 00:09
PFHxA	0.11 J	0.11	0.032	0.032	1	307-24-4		08/11/2022 00:09
4:2 FTS	ND	0.11	0.027	0.027	1	757124-72-4		08/11/2022 00:09
PFPeS	0.043 J	0.11	0.028	0.028	1	2706-91-4		08/11/2022 00:09
PFHpA	0.048 J	0.11	0.040	0.040	1	375-85-9		08/11/2022 00:09
DONA	ND	0.11	0.042	0.042	1	919005-14-4		08/11/2022 00:09
PFHxS	0.54	0.10	0.025	0.025	1	355-46-4		08/11/2022 00:09
PFOA	0.077 J	0.11	0.036	0.036	1	335-67-1		08/11/2022 00:09
6:2 FTS	0.11 J	0.11	0.047	0.047	1	27619-97-2		08/11/2022 00:09
PFHpS	ND	0.11	0.032	0.032	1	375-92-8		08/11/2022 00:09
PFNA	ND	0.11	0.036	0.036	1	375-95-1		08/11/2022 00:09
PFOSAm	0.11 J	0.11	0.034	0.034	1	754-91-6		08/11/2022 00:09
PFOS	3.2	0.11	0.034	0.034	1	1763-23-1		08/11/2022 00:09
MeFOSA	ND	0.11	0.031	0.031	1	31506-32-8		08/11/2022 00:09
PFDA	0.041 J	0.11	0.026	0.026	1	335-76-2		08/11/2022 00:09
EtFOSAm	ND	0.11	0.029	0.029	1	4151-50-2		08/11/2022 00:09
8:2 FTS	0.051 IJ	0.11	0.050	0.050	1	39108-34-4		08/11/2022 00:09
9-CI-PF3ON	ND	0.11	0.029	0.029	1	756426-58-1		08/11/2022 00:09
PFNS	ND	0.11	0.040	0.040	1	68259-12-1		08/11/2022 00:09
PFUnDA	ND	0.11	0.035	0.035	1	2058-94-8		08/11/2022 00:09
NMeFOSAA	0.054 J	0.11	0.032	0.032	1	2355-31-9		08/11/2022 00:09
NEtFOSAA	0.073 J	0.11	0.046	0.046	1	2991-50-6		08/11/2022 00:09
PFDS	0.086 J	0.11	0.032	0.032	1	335-77-3		08/11/2022 00:09
PFDOA	0.067 J	0.11	0.038	0.038	1	307-55-1		08/11/2022 00:09
MeFOSE	ND	0.11	0.035	0.035	1	24448-09-7		08/11/2022 00:09
EtFOSE	ND	0.11	0.037	0.037	1	1691-99-2		08/11/2022 00:09
11-CI-PF3OUdS	ND	0.11	0.029	0.029	1	763051-92-9		08/11/2022 00:09
PFTTrDA	ND	0.11	0.037	0.037	1	72629-94-8		08/11/2022 00:09
PFDoS	ND	0.11	0.030	0.030	1	79780-39-5		08/11/2022 00:09
PFTDA	ND	0.11	0.039	0.039	1	376-06-7		08/11/2022 00:09

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(2-4)	Total Amount Extracted	5.24g
Lab Sample ID	10618249009	Percent Moisture	16.7677%
Lab File ID	B220810E_004	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:20	CCal File	B220810E_002
Received	07/23/2022 11:35	Ending CCal File	B220810E_014
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.4	119	50-150		08/11/2022 00:09
13C4 PFOA	1.1	1.4	118	50-150		08/11/2022 00:09
13C2 PFDA	1.1	1.5	133	50-150		08/11/2022 00:09
13C4 PFOS	1.1	1.4	126	50-150		08/11/2022 00:09

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	93	25-150		08/11/2022 00:09
13C5 PFPeA	1.1	1.1	96	25-150		08/11/2022 00:09
13C3 PFBS	1.1	0.99	93	25-150		08/11/2022 00:09
13C2 4:2FTS	1.1	1.1	99	25-150		08/11/2022 00:09
13C5 PFHxA	1.1	1.2	101	25-150		08/11/2022 00:09
13C4 PFHpA	1.1	1.0	91	25-150		08/11/2022 00:09
13C3 PFHxS	1.1	1.0	96	25-150		08/11/2022 00:09
13C2 6:2FTS	1.1	1.0	96	25-150		08/11/2022 00:09
13C8 PFOA	1.1	1.1	95	25-150		08/11/2022 00:09
13C9 PFNA	1.1	1.1	95	25-150		08/11/2022 00:09
13C8 PFOS	1.1	0.96	87	25-150		08/11/2022 00:09
13C2 8:2FTS	1.1	1.1	104	25-150		08/11/2022 00:09
13C6 PFDA	1.1	1.2	107	25-150		08/11/2022 00:09
d3-MeFOSAA	1.1	1.2	101	25-150		08/11/2022 00:09
13C8 PFOSA	1.1	0.89	78	25-150		08/11/2022 00:09
d5-EtFOSAA	1.1	1.2	108	25-150		08/11/2022 00:09
13C7 PFUdA	1.1	1.4	119	25-150		08/11/2022 00:09
13C2 PFDoA	1.1	1.3	116	25-150		08/11/2022 00:09
13C2 PFTeDA	1.1	1.4	123	25-150		08/11/2022 00:09
13C3 HFPO-DA	1.1	1.1	92	25-150		08/11/2022 00:09
13C2 PFHxDA	1.1	1.6	139	25-150		08/11/2022 00:09
d7-N-MeFOSE	1.1	0.65	56	10-150		08/11/2022 00:09
d9-N-EtFOSE	1.1	0.70	61	10-150		08/11/2022 00:09
d3-N-MeFOSA	1.1	0.24	21	10-150		08/11/2022 00:09
d5-N-EtFOSA	1.1	0.28	25	10-150		08/11/2022 00:09

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(2-4)	Total Amount Extracted	5.24g
Lab Sample ID	10618249009	Percent Moisture	16.7677%
Lab File ID	B220810E_004	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:20	CCal File	B220810E_002
Received	07/23/2022 11:35	Ending CCal File	B220810E_014
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.80	5.77	22		08/11/2022 00:09
13C4 PFOA	N/A	N/A	7.08	7.07	19		08/11/2022 00:09
13C2 PFDA	N/A	N/A	8.38	8.39	20		08/11/2022 00:09
13C4 PFOS	N/A	N/A	8.87	8.88	28		08/11/2022 00:09

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.19	4.23	18		08/11/2022 00:09
13C5 PFPeA	N/A	N/A	5.12	5.10	18		08/11/2022 00:09
13C3 PFBS	N/A	N/A	6.04	6.02	29		08/11/2022 00:09
13C2 4:2FTS	N/A	N/A	5.53	5.51	21		08/11/2022 00:09
13C5 PFHxA	N/A	N/A	5.80	5.78	17		08/11/2022 00:09
13C4 PFHpA	N/A	N/A	6.44	6.42	15		08/11/2022 00:09
13C3 PFHxS	N/A	N/A	7.49	7.47	49		08/11/2022 00:09
13C2 6:2FTS	N/A	N/A	6.75	6.73	27		08/11/2022 00:09
13C8 PFOA	N/A	N/A	7.08	7.06	20		08/11/2022 00:09
13C9 PFNA	N/A	N/A	7.73	7.71	20		08/11/2022 00:09
13C8 PFOS	N/A	N/A	8.87	8.86	27		08/11/2022 00:09
13C2 8:2FTS	N/A	N/A	8.01	8.00	36		08/11/2022 00:09
13C6 PFDA	N/A	N/A	8.39	8.38	17		08/11/2022 00:09
d3-MeFOSAA	N/A	N/A	8.24	8.25	16		08/11/2022 00:09
13C8 PFOSA	N/A	N/A	10.39	10.42	12		08/11/2022 00:09
d5-EtFOSAA	N/A	N/A	8.53	8.54	10		08/11/2022 00:09
13C7 PFUdA	N/A	N/A	9.05	9.07	20		08/11/2022 00:09
13C2 PFDoA	N/A	N/A	9.73	9.71	10		08/11/2022 00:09
13C2 PFTeDA	N/A	N/A	11.04	11.02	20		08/11/2022 00:09
13C3 HFPO-DA	N/A	N/A	6.06	6.04	11		08/11/2022 00:09
13C2 PFHxDA	N/A	N/A	12.21	12.22	20		08/11/2022 00:09
d7-N-MeFOSE	N/A	N/A	12.42	12.44	55		08/11/2022 00:09
d9-N-EtFOSE	N/A	N/A	12.90	12.88	34		08/11/2022 00:09
d3-N-MeFOSA	N/A	N/A	12.63	12.65	63		08/11/2022 00:09
d5-N-EtFOSA	N/A	N/A	13.05	13.07	48		08/11/2022 00:09

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(2-4)	Total Amount Extracted	5.24g
Lab Sample ID	10618249009	Percent Moisture	16.7677%
Lab File ID	B220810E_004	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:20	CCal File	B220810E_002
Received	07/23/2022 11:35	Ending CCal File	B220810E_014
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.19	4.23	ND		08/11/2022 00:09
PFPeA	N/A	N/A	5.12	5.15	92	J	08/11/2022 00:09
HFPO-DA	0.00	0.25	0.00	6.07	ND		08/11/2022 00:09
PFBS	0.30	0.41	6.05	6.02	22	J	08/11/2022 00:09
PFHxA	0.10	0.08	5.81	5.81	82	J	08/11/2022 00:09
4:2 FTS	0.00	0.86	0.00	5.54	ND		08/11/2022 00:09
PFPeS	0.28	0.43	6.79	6.79	43	J	08/11/2022 00:09
PFHpA	0.33	0.31	6.45	6.44	25	J	08/11/2022 00:09
DONA	0.00	0.60	0.00	6.67	ND		08/11/2022 00:09
PFHxS	0.33	0.39	7.50	7.49	92		08/11/2022 00:09
PFOA	0.42	0.37	7.09	7.08	12	J	08/11/2022 00:09
6:2 FTS	0.87	0.77	6.75	6.74	83	J	08/11/2022 00:09
PFHpS	0.41	0.41	8.19	8.20	ND		08/11/2022 00:09
PFNA	0.15	0.13	7.73	7.73	ND		08/11/2022 00:09
PFOSAm	N/A	N/A	10.40	10.44	37	J	08/11/2022 00:09
PFOS	0.39	0.41	8.88	8.90	30		08/11/2022 00:09
MeFOSA	0.00	0.63	0.00	12.69	ND		08/11/2022 00:09
PFDA	0.22	0.18	8.40	8.40	14	J	08/11/2022 00:09
EtFOSAm	0.00	0.60	0.00	13.10	ND		08/11/2022 00:09
8:2 FTS	2.90	0.88	8.02	8.02	12	IJ	08/11/2022 00:09
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 00:09
PFNS	0.40	0.45	9.56	9.58	ND		08/11/2022 00:09
PFUnDA	0.12	0.13	9.06	9.05	ND		08/11/2022 00:09
NMeFOSAA	0.89	0.79	8.25	8.26	18	J	08/11/2022 00:09
NEtFOSAA	0.67	0.63	8.54	8.55	21	J	08/11/2022 00:09
PFDS	0.37	0.39	10.22	10.19	96	J	08/11/2022 00:09
PFDOA	0.16	0.19	9.73	9.72	19	J	08/11/2022 00:09
MeFOSE	N/A	N/A	12.47	12.45	ND		08/11/2022 00:09
EtFOSE	0.00	0.00	12.93	12.92	ND		08/11/2022 00:09
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 00:09
PFTTrDA	0.18	0.20	10.40	10.37	ND		08/11/2022 00:09
PFDoS	0.63	0.49	11.45	11.43	ND		08/11/2022 00:09
PFTDA	0.26	0.26	11.04	11.02	ND		08/11/2022 00:09

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(4-6)	Total Amount Extracted	5.09g
Lab Sample ID	10618249010	Percent Moisture	26.2623%
Lab File ID	B220811A_023	Dry Weight Extracted	3.75g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:25	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.038	0.038	1	375-22-4		08/11/2022 16:30
PFPeA	0.070 J	0.13	0.038	0.038	1	2706-90-3		08/11/2022 16:30
HFPO-DA	ND	0.13	0.037	0.037	1	13252-13-6		08/11/2022 16:30
PFBS	ND	0.12	0.035	0.035	1	375-73-5		08/11/2022 16:30
PFHxA	ND	0.13	0.037	0.037	1	307-24-4		08/11/2022 16:30
4:2 FTS	ND	0.12	0.031	0.031	1	757124-72-4		08/11/2022 16:30
PFPeS	ND	0.13	0.032	0.032	1	2706-91-4		08/11/2022 16:30
PFHpA	ND	0.13	0.046	0.046	1	375-85-9		08/11/2022 16:30
DONA	ND	0.13	0.048	0.048	1	919005-14-4		08/11/2022 16:30
PFHxS	0.11 IJ	0.12	0.029	0.029	1	355-46-4		08/11/2022 16:30
PFOA	ND	0.13	0.041	0.041	1	335-67-1		08/11/2022 16:30
6:2 FTS	ND	0.13	0.055	0.055	1	27619-97-2		08/11/2022 16:30
PFHpS	ND	0.13	0.037	0.037	1	375-92-8		08/11/2022 16:30
PFNA	ND	0.13	0.041	0.041	1	375-95-1		08/11/2022 16:30
PFOSAm	ND	0.13	0.039	0.039	1	754-91-6		08/11/2022 16:30
PFOS	0.25	0.12	0.039	0.039	1	1763-23-1		08/11/2022 16:30
MeFOSA	ND	0.13	0.036	0.036	1	31506-32-8		08/11/2022 16:30
PFDA	ND	0.13	0.030	0.030	1	335-76-2		08/11/2022 16:30
EtFOSAm	ND	0.13	0.034	0.034	1	4151-50-2		08/11/2022 16:30
8:2 FTS	ND	0.13	0.058	0.058	1	39108-34-4		08/11/2022 16:30
9-CI-PF3ON	ND	0.12	0.033	0.033	1	756426-58-1		08/11/2022 16:30
PFNS	ND	0.13	0.046	0.046	1	68259-12-1		08/11/2022 16:30
PFUnDA	ND	0.13	0.040	0.040	1	2058-94-8		08/11/2022 16:30
NMeFOSAA	ND	0.13	0.037	0.037	1	2355-31-9		08/11/2022 16:30
NEtFOSAA	0.69	0.13	0.054	0.054	1	2991-50-6		08/11/2022 16:30
PFDS	ND	0.13	0.038	0.038	1	335-77-3		08/11/2022 16:30
PFDOA	ND	0.13	0.044	0.044	1	307-55-1		08/11/2022 16:30
MeFOSE	ND	0.13	0.040	0.040	1	24448-09-7		08/11/2022 16:30
EtFOSE	ND	0.13	0.043	0.043	1	1691-99-2		08/11/2022 16:30
11-CI-PF3OUdS	ND	0.13	0.034	0.034	1	763051-92-9		08/11/2022 16:30
PFTTrDA	ND	0.13	0.042	0.042	1	72629-94-8		08/11/2022 16:30
PFDoS	ND	0.13	0.035	0.035	1	79780-39-5		08/11/2022 16:30
PFTDA	ND	0.13	0.046	0.046	1	376-06-7		08/11/2022 16:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(4-6)	Total Amount Extracted	5.09g
Lab Sample ID	10618249010	Percent Moisture	26.2623%
Lab File ID	B220811A_023	Dry Weight Extracted	3.75g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:25	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.6	117	50-150		08/11/2022 16:30
13C4 PFOA	1.3	1.7	125	50-150		08/11/2022 16:30
13C2 PFDA	1.3	1.5	115	50-150		08/11/2022 16:30
13C4 PFOS	1.3	1.5	115	50-150		08/11/2022 16:30

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.2	88	25-150		08/11/2022 16:30
13C5 PFPeA	1.3	1.2	92	25-150		08/11/2022 16:30
13C3 PFBS	1.2	1.1	89	25-150		08/11/2022 16:30
13C2 4:2FTS	1.2	1.2	100	25-150		08/11/2022 16:30
13C5 PFHxA	1.3	1.1	84	25-150		08/11/2022 16:30
13C4 PFHpA	1.3	1.1	86	25-150		08/11/2022 16:30
13C3 PFHxS	1.3	1.2	94	25-150		08/11/2022 16:30
13C2 6:2FTS	1.3	1.2	94	25-150		08/11/2022 16:30
13C8 PFOA	1.3	1.3	101	25-150		08/11/2022 16:30
13C9 PFNA	1.3	1.1	84	25-150		08/11/2022 16:30
13C8 PFOS	1.3	1.0	82	25-150		08/11/2022 16:30
13C2 8:2FTS	1.3	1.8	143	25-150		08/11/2022 16:30
13C6 PFDA	1.3	1.4	102	25-150		08/11/2022 16:30
d3-MeFOSAA	1.3	1.4	103	25-150		08/11/2022 16:30
13C8 PFOSA	1.3	0.92	69	25-150		08/11/2022 16:30
d5-EtFOSAA	1.3	1.5	114	25-150		08/11/2022 16:30
13C7 PFUdA	1.3	1.2	90	25-150		08/11/2022 16:30
13C2 PFDoA	1.3	1.4	103	25-150		08/11/2022 16:30
13C2 PFTeDA	1.3	1.7	125	25-150		08/11/2022 16:30
13C3 HFPO-DA	1.3	1.1	79	25-150		08/11/2022 16:30
13C2 PFHxDA	1.3	1.6	117	25-150		08/11/2022 16:30
d7-N-MeFOSE	1.3	0.45	34	10-150		08/11/2022 16:30
d9-N-EtFOSE	1.3	0.51	38	10-150		08/11/2022 16:30
d3-N-MeFOSA	1.3	0.23	18	10-150		08/11/2022 16:30
d5-N-EtFOSA	1.3	0.25	19	10-150		08/11/2022 16:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(4-6)	Total Amount Extracted	5.09g
Lab Sample ID	10618249010	Percent Moisture	26.2623%
Lab File ID	B220811A_023	Dry Weight Extracted	3.75g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:25	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.77	17		08/11/2022 16:30
13C4 PFOA	N/A	N/A	7.11	7.07	23		08/11/2022 16:30
13C2 PFDA	N/A	N/A	8.39	8.39	23		08/11/2022 16:30
13C4 PFOS	N/A	N/A	8.86	8.88	23		08/11/2022 16:30

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.17	4.23	20		08/11/2022 16:30
13C5 PFPeA	N/A	N/A	5.12	5.10	14		08/11/2022 16:30
13C3 PFBS	N/A	N/A	6.06	6.02	27		08/11/2022 16:30
13C2 4:2FTS	N/A	N/A	5.55	5.51	18		08/11/2022 16:30
13C5 PFHxA	N/A	N/A	5.82	5.78	12		08/11/2022 16:30
13C4 PFHpA	N/A	N/A	6.47	6.42	10		08/11/2022 16:30
13C3 PFHxS	N/A	N/A	7.51	7.47	41		08/11/2022 16:30
13C2 6:2FTS	N/A	N/A	6.78	6.73	18		08/11/2022 16:30
13C8 PFOA	N/A	N/A	7.11	7.06	21		08/11/2022 16:30
13C9 PFNA	N/A	N/A	7.75	7.71	16		08/11/2022 16:30
13C8 PFOS	N/A	N/A	8.86	8.86	23		08/11/2022 16:30
13C2 8:2FTS	N/A	N/A	8.03	8.00	30		08/11/2022 16:30
13C6 PFDA	N/A	N/A	8.39	8.38	16		08/11/2022 16:30
d3-MeFOSAA	N/A	N/A	8.25	8.25	16		08/11/2022 16:30
13C8 PFOSA	N/A	N/A	10.36	10.42	11		08/11/2022 16:30
d5-EtFOSAA	N/A	N/A	8.53	8.54	14		08/11/2022 16:30
13C7 PFUdA	N/A	N/A	9.05	9.07	15		08/11/2022 16:30
13C2 PFDoA	N/A	N/A	9.72	9.71	79		08/11/2022 16:30
13C2 PFTeDA	N/A	N/A	11.02	11.02	16		08/11/2022 16:30
13C3 HFPO-DA	N/A	N/A	6.09	6.04	12		08/11/2022 16:30
13C2 PFHxDA	N/A	N/A	12.19	12.22	24		08/11/2022 16:30
d7-N-MeFOSE	N/A	N/A	12.42	12.44	54		08/11/2022 16:30
d9-N-EtFOSE	N/A	N/A	12.90	12.88	26		08/11/2022 16:30
d3-N-MeFOSA	N/A	N/A	12.63	12.65	50		08/11/2022 16:30
d5-N-EtFOSA	N/A	N/A	13.05	13.07	56		08/11/2022 16:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(4-6)	Total Amount Extracted	5.09g
Lab Sample ID	10618249010	Percent Moisture	26.2623%
Lab File ID	B220811A_023	Dry Weight Extracted	3.75g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:25	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.23	ND		08/11/2022 16:30
PFPeA	N/A	N/A	5.16	5.15	16	J	08/11/2022 16:30
HFPO-DA	0.32	0.26	6.10	6.07	ND		08/11/2022 16:30
PFBS	0.12	0.47	6.05	6.02	ND		08/11/2022 16:30
PFHxA	0.00	0.08	0.00	5.81	ND		08/11/2022 16:30
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 16:30
PFPeS	0.13	0.42	6.80	6.79	ND		08/11/2022 16:30
PFHpA	0.21	0.33	6.48	6.44	ND		08/11/2022 16:30
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 16:30
PFHxS	0.09	0.41	7.35	7.49	13	IJ	08/11/2022 16:30
PFOA	0.35	0.35	7.12	7.08	ND		08/11/2022 16:30
6:2 FTS	1.20	0.88	6.79	6.74	ND		08/11/2022 16:30
PFHpS	0.00	0.37	0.00	8.20	ND		08/11/2022 16:30
PFNA	0.14	0.14	7.75	7.73	ND		08/11/2022 16:30
PFOSAm	N/A	N/A	10.37	10.44	ND		08/11/2022 16:30
PFOS	0.30	0.39	8.87	8.90	74		08/11/2022 16:30
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 16:30
PFDA	0.17	0.17	8.40	8.40	ND		08/11/2022 16:30
EtFOSAm	0.55	0.56	13.08	13.10	ND		08/11/2022 16:30
8:2 FTS	8.40	0.96	8.05	8.02	ND		08/11/2022 16:30
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 16:30
PFNS	0.00	0.51	0.00	9.58	ND		08/11/2022 16:30
PFUnDA	0.10	0.14	9.07	9.05	ND		08/11/2022 16:30
NMeFOSAA	0.81	0.84	8.26	8.26	ND		08/11/2022 16:30
NEtFOSAA	0.61	0.69	8.55	8.55	56		08/11/2022 16:30
PFDS	0.28	0.35	10.19	10.19	ND		08/11/2022 16:30
PFDOA	0.19	0.18	9.73	9.72	ND		08/11/2022 16:30
MeFOSE	N/A	N/A	0.00	12.45	ND		08/11/2022 16:30
EtFOSE	0.00	0.00	0.00	12.92	ND		08/11/2022 16:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 16:30
PFTTrDA	0.25	0.16	10.38	10.37	ND		08/11/2022 16:30
PFDoS	0.00	0.47	0.00	11.43	ND		08/11/2022 16:30
PFTDA	0.25	0.26	11.03	11.02	ND		08/11/2022 16:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(6-8)	Total Amount Extracted	5.16g
Lab Sample ID	10618249011	Percent Moisture	26.6737%
Lab File ID	B220811A_024	Dry Weight Extracted	3.79g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:30	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.037	0.037	1	375-22-4		08/11/2022 16:50
PFPeA	ND	0.13	0.038	0.038	1	2706-90-3		08/11/2022 16:50
HFPO-DA	ND	0.13	0.037	0.037	1	13252-13-6		08/11/2022 16:50
PFBS	ND	0.12	0.035	0.035	1	375-73-5		08/11/2022 16:50
PFHxA	ND	0.13	0.036	0.036	1	307-24-4		08/11/2022 16:50
4:2 FTS	ND	0.12	0.030	0.030	1	757124-72-4		08/11/2022 16:50
PFPeS	ND	0.12	0.032	0.032	1	2706-91-4		08/11/2022 16:50
PFHpA	ND	0.13	0.046	0.046	1	375-85-9		08/11/2022 16:50
DONA	ND	0.12	0.048	0.048	1	919005-14-4		08/11/2022 16:50
PFHxS	0.032 J	0.12	0.029	0.029	1	355-46-4		08/11/2022 16:50
PFOA	ND	0.13	0.041	0.041	1	335-67-1		08/11/2022 16:50
6:2 FTS	ND	0.13	0.055	0.055	1	27619-97-2		08/11/2022 16:50
PFHpS	ND	0.13	0.037	0.037	1	375-92-8		08/11/2022 16:50
PFNA	ND	0.13	0.041	0.041	1	375-95-1		08/11/2022 16:50
PFOSAm	0.078 J	0.13	0.039	0.039	1	754-91-6		08/11/2022 16:50
PFOS	1.0	0.12	0.039	0.039	1	1763-23-1		08/11/2022 16:50
MeFOSA	ND	0.13	0.036	0.036	1	31506-32-8		08/11/2022 16:50
PFDA	ND	0.13	0.030	0.030	1	335-76-2		08/11/2022 16:50
EtFOSAm	ND	0.13	0.034	0.034	1	4151-50-2		08/11/2022 16:50
8:2 FTS	ND	0.13	0.058	0.058	1	39108-34-4		08/11/2022 16:50
9-CI-PF3ON	ND	0.12	0.033	0.033	1	756426-58-1		08/11/2022 16:50
PFNS	ND	0.13	0.046	0.046	1	68259-12-1		08/11/2022 16:50
PFUnDA	ND	0.13	0.040	0.040	1	2058-94-8		08/11/2022 16:50
NMeFOSAA	0.18	0.13	0.037	0.037	1	2355-31-9		08/11/2022 16:50
NEtFOSAA	0.98	0.13	0.053	0.053	1	2991-50-6		08/11/2022 16:50
PFDS	ND	0.13	0.037	0.037	1	335-77-3		08/11/2022 16:50
PFDOA	ND	0.13	0.043	0.043	1	307-55-1		08/11/2022 16:50
MeFOSE	ND	0.13	0.040	0.040	1	24448-09-7		08/11/2022 16:50
EtFOSE	ND	0.13	0.043	0.043	1	1691-99-2		08/11/2022 16:50
11-CI-PF3OUdS	ND	0.12	0.033	0.033	1	763051-92-9		08/11/2022 16:50
PFTTrDA	ND	0.13	0.042	0.042	1	72629-94-8		08/11/2022 16:50
PFDoS	ND	0.13	0.034	0.034	1	79780-39-5		08/11/2022 16:50
PFTDA	ND	0.13	0.045	0.045	1	376-06-7		08/11/2022 16:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(6-8)	Total Amount Extracted	5.16g
Lab Sample ID	10618249011	Percent Moisture	26.6737%
Lab File ID	B220811A_024	Dry Weight Extracted	3.79g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:30	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.5	111	50-150		08/11/2022 16:50
13C4 PFOA	1.3	1.6	125	50-150		08/11/2022 16:50
13C2 PFDA	1.3	1.5	110	50-150		08/11/2022 16:50
13C4 PFOS	1.3	1.5	117	50-150		08/11/2022 16:50

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.2	89	25-150		08/11/2022 16:50
13C5 PFPeA	1.3	1.2	88	25-150		08/11/2022 16:50
13C3 PFBS	1.2	1.1	94	25-150		08/11/2022 16:50
13C2 4:2FTS	1.2	1.2	97	25-150		08/11/2022 16:50
13C5 PFHxA	1.3	1.1	84	25-150		08/11/2022 16:50
13C4 PFHpA	1.3	1.1	80	25-150		08/11/2022 16:50
13C3 PFHxS	1.2	1.2	94	25-150		08/11/2022 16:50
13C2 6:2FTS	1.3	1.1	88	25-150		08/11/2022 16:50
13C8 PFOA	1.3	1.3	96	25-150		08/11/2022 16:50
13C9 PFNA	1.3	1.2	93	25-150		08/11/2022 16:50
13C8 PFOS	1.3	1.1	91	25-150		08/11/2022 16:50
13C2 8:2FTS	1.3	1.4	110	25-150		08/11/2022 16:50
13C6 PFDA	1.3	1.3	97	25-150		08/11/2022 16:50
d3-MeFOSAA	1.3	1.4	104	25-150		08/11/2022 16:50
13C8 PFOSA	1.3	0.89	67	25-150		08/11/2022 16:50
d5-EtFOSAA	1.3	1.4	110	25-150		08/11/2022 16:50
13C7 PFUdA	1.3	1.4	107	25-150		08/11/2022 16:50
13C2 PFDoA	1.3	1.5	114	25-150		08/11/2022 16:50
13C2 PFTeDA	1.3	1.5	115	25-150		08/11/2022 16:50
13C3 HFPO-DA	1.3	1.1	85	25-150		08/11/2022 16:50
13C2 PFHxDA	1.3	1.6	119	25-150		08/11/2022 16:50
d7-N-MeFOSE	1.3	0.49	37	10-150		08/11/2022 16:50
d9-N-EtFOSE	1.3	0.48	36	10-150		08/11/2022 16:50
d3-N-MeFOSA	1.3	0.11	8	10-150	R	08/11/2022 16:50
d5-N-EtFOSA	1.3	0.11	9	10-150	R	08/11/2022 16:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB4_(6-8)	Total Amount Extracted	5.16g
Lab Sample ID	10618249011	Percent Moisture	26.6737%
Lab File ID	B220811A_024	Dry Weight Extracted	3.79g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:30	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	20		08/11/2022 16:50
13C4 PFOA	N/A	N/A	7.11	7.07	22		08/11/2022 16:50
13C2 PFDA	N/A	N/A	8.39	8.39	17		08/11/2022 16:50
13C4 PFOS	N/A	N/A	8.86	8.88	22		08/11/2022 16:50

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.18	4.23	21		08/11/2022 16:50
13C5 PFPeA	N/A	N/A	5.13	5.10	15		08/11/2022 16:50
13C3 PFBS	N/A	N/A	6.06	6.02	35		08/11/2022 16:50
13C2 4:2FTS	N/A	N/A	5.56	5.51	24		08/11/2022 16:50
13C5 PFHxA	N/A	N/A	5.83	5.78	12		08/11/2022 16:50
13C4 PFHpA	N/A	N/A	6.47	6.42	18		08/11/2022 16:50
13C3 PFHxS	N/A	N/A	7.51	7.47	48		08/11/2022 16:50
13C2 6:2FTS	N/A	N/A	6.78	6.73	29		08/11/2022 16:50
13C8 PFOA	N/A	N/A	7.11	7.06	24		08/11/2022 16:50
13C9 PFNA	N/A	N/A	7.74	7.71	20		08/11/2022 16:50
13C8 PFOS	N/A	N/A	8.86	8.86	33		08/11/2022 16:50
13C2 8:2FTS	N/A	N/A	8.02	8.00	43		08/11/2022 16:50
13C6 PFDA	N/A	N/A	8.39	8.38	17		08/11/2022 16:50
d3-MeFOSAA	N/A	N/A	8.25	8.25	22		08/11/2022 16:50
13C8 PFOSA	N/A	N/A	10.37	10.42	12		08/11/2022 16:50
d5-EtFOSAA	N/A	N/A	8.54	8.54	13		08/11/2022 16:50
13C7 PFUdA	N/A	N/A	9.05	9.07	18		08/11/2022 16:50
13C2 PFDoA	N/A	N/A	9.73	9.71	10		08/11/2022 16:50
13C2 PFTeDA	N/A	N/A	11.03	11.02	15		08/11/2022 16:50
13C3 HFPO-DA	N/A	N/A	6.09	6.04	11		08/11/2022 16:50
13C2 PFHxDA	N/A	N/A	12.19	12.22	18		08/11/2022 16:50
d7-N-MeFOSE	N/A	N/A	12.43	12.44	70		08/11/2022 16:50
d9-N-EtFOSE	N/A	N/A	12.90	12.88	26		08/11/2022 16:50
d3-N-MeFOSA	N/A	N/A	12.63	12.65	33	R	08/11/2022 16:50
d5-N-EtFOSA	N/A	N/A	13.06	13.07	35	R	08/11/2022 16:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

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Client Sample ID	SB4_(6-8)	Total Amount Extracted	5.16g
Lab Sample ID	10618249011	Percent Moisture	26.6737%
Lab File ID	B220811A_024	Dry Weight Extracted	3.79g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 13:30	CCal File	B220811A_017
Received	07/23/2022 11:35	Ending CCal File	B220811A_025
Extraction Date	08/01/2022 12:25	Blank File	B220811C_044

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.23	ND		08/11/2022 16:50
PFPeA	N/A	N/A	5.16	5.15	ND		08/11/2022 16:50
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/11/2022 16:50
PFBS	0.41	0.47	6.07	6.02	ND		08/11/2022 16:50
PFHxA	0.08	0.08	5.83	5.81	ND		08/11/2022 16:50
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/11/2022 16:50
PFPeS	0.00	0.42	0.00	6.79	ND		08/11/2022 16:50
PFHpA	0.59	0.33	6.48	6.44	ND		08/11/2022 16:50
DONA	0.00	0.59	0.00	6.67	ND		08/11/2022 16:50
PFHxS	0.26	0.41	7.51	7.49	18	J	08/11/2022 16:50
PFOA	0.42	0.35	7.12	7.08	ND		08/11/2022 16:50
6:2 FTS	0.88	0.88	6.78	6.74	ND		08/11/2022 16:50
PFHpS	0.00	0.37	0.00	8.20	ND		08/11/2022 16:50
PFNA	0.17	0.14	7.75	7.73	ND		08/11/2022 16:50
PFOSAm	N/A	N/A	10.38	10.38	37	J	08/11/2022 16:50
PFOS	0.38	0.39	8.87	8.90	18		08/11/2022 16:50
MeFOSA	0.00	0.52	0.00	12.69	ND		08/11/2022 16:50
PFDA	0.19	0.17	8.41	8.40	ND		08/11/2022 16:50
EtFOSAm	0.00	0.56	0.00	13.10	ND		08/11/2022 16:50
8:2 FTS	3.20	0.96	8.03	8.02	ND		08/11/2022 16:50
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/11/2022 16:50
PFNS	0.32	0.51	9.56	9.58	ND		08/11/2022 16:50
PFUnDA	0.14	0.14	9.06	9.05	ND		08/11/2022 16:50
NMeFOSAA	0.79	0.84	8.26	8.26	11		08/11/2022 16:50
NEtFOSAA	0.67	0.69	8.55	8.55	54		08/11/2022 16:50
PFDS	0.37	0.35	10.20	10.19	ND		08/11/2022 16:50
PFDOA	0.14	0.18	9.73	9.72	ND		08/11/2022 16:50
MeFOSE	N/A	N/A	12.47	12.45	ND		08/11/2022 16:50
EtFOSE	0.00	0.00	12.94	12.92	ND		08/11/2022 16:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/11/2022 16:50
PFTTrDA	0.19	0.16	10.40	10.37	ND		08/11/2022 16:50
PFDoS	0.00	0.47	0.00	11.43	ND		08/11/2022 16:50
PFTDA	0.25	0.26	11.03	11.02	ND		08/11/2022 16:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(0-2)	Total Amount Extracted	5.02g
Lab Sample ID	10618249012	Percent Moisture	13.4791%
Lab File ID	B220812A_012	Dry Weight Extracted	4.35g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:45	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.033	0.033	1	375-22-4		08/12/2022 17:30
PFPeA	ND	0.12	0.033	0.033	1	2706-90-3		08/12/2022 17:30
HFPO-DA	ND	0.12	0.032	0.032	1	13252-13-6		08/12/2022 17:30
PFBS	ND	0.10	0.030	0.030	1	375-73-5		08/12/2022 17:30
PFHxA	ND	0.12	0.032	0.032	1	307-24-4		08/12/2022 17:30
4:2 FTS	ND	0.11	0.027	0.027	1	757124-72-4		08/12/2022 17:30
PFPeS	ND	0.11	0.028	0.028	1	2706-91-4		08/12/2022 17:30
PFHpA	ND	0.12	0.040	0.040	1	375-85-9		08/12/2022 17:30
DONA	ND	0.11	0.042	0.042	1	919005-14-4		08/12/2022 17:30
PFHxS	0.14	0.10	0.025	0.025	1	355-46-4		08/12/2022 17:30
PFOA	ND	0.12	0.036	0.036	1	335-67-1		08/12/2022 17:30
6:2 FTS	0.050 J	0.11	0.048	0.048	1	27619-97-2		08/12/2022 17:30
PFHpS	ND	0.11	0.032	0.032	1	375-92-8		08/12/2022 17:30
PFNA	ND	0.12	0.036	0.036	1	375-95-1		08/12/2022 17:30
PFOSAm	ND	0.12	0.034	0.034	1	754-91-6		08/12/2022 17:30
PFOS	0.59	0.11	0.034	0.034	1	1763-23-1		08/12/2022 17:30
MeFOSA	ND	0.12	0.031	0.031	1	31506-32-8		08/12/2022 17:30
PFDA	ND	0.12	0.026	0.026	1	335-76-2		08/12/2022 17:30
EtFOSAm	ND	0.12	0.029	0.029	1	4151-50-2		08/12/2022 17:30
8:2 FTS	ND	0.11	0.050	0.050	1	39108-34-4		08/12/2022 17:30
9-CI-PF3ON	ND	0.11	0.029	0.029	1	756426-58-1		08/12/2022 17:30
PFNS	ND	0.11	0.040	0.040	1	68259-12-1		08/12/2022 17:30
PFUnDA	ND	0.12	0.035	0.035	1	2058-94-8		08/12/2022 17:30
NMeFOSAA	ND	0.12	0.032	0.032	1	2355-31-9		08/12/2022 17:30
NEtFOSAA	ND	0.12	0.046	0.046	1	2991-50-6		08/12/2022 17:30
PFDS	ND	0.11	0.032	0.032	1	335-77-3		08/12/2022 17:30
PFDOA	ND	0.12	0.038	0.038	1	307-55-1		08/12/2022 17:30
MeFOSE	ND	0.12	0.035	0.035	1	24448-09-7		08/12/2022 17:30
EtFOSE	ND	0.12	0.037	0.037	1	1691-99-2		08/12/2022 17:30
11-CI-PF3OUdS	ND	0.11	0.029	0.029	1	763051-92-9		08/12/2022 17:30
PFTTrDA	ND	0.12	0.037	0.037	1	72629-94-8		08/12/2022 17:30
PFDoS	ND	0.11	0.030	0.030	1	79780-39-5		08/12/2022 17:30
PFTDA	ND	0.12	0.039	0.039	1	376-06-7		08/12/2022 17:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(0-2)	Total Amount Extracted	5.02g
Lab Sample ID	10618249012	Percent Moisture	13.4791%
Lab File ID	B220812A_012	Dry Weight Extracted	4.35g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:45	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.3	110	50-150		08/12/2022 17:30
13C4 PFOA	1.2	1.3	112	50-150		08/12/2022 17:30
13C2 PFDA	1.2	1.1	92	50-150		08/12/2022 17:30
13C4 PFOS	1.1	1.1	104	50-150		08/12/2022 17:30

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.1	96	25-150		08/12/2022 17:30
13C5 PFPeA	1.2	1.2	102	25-150		08/12/2022 17:30
13C3 PFBS	1.1	1.1	102	25-150		08/12/2022 17:30
13C2 4:2FTS	1.1	1.1	101	25-150		08/12/2022 17:30
13C5 PFHxA	1.2	1.2	100	25-150		08/12/2022 17:30
13C4 PFHpA	1.2	1.3	110	25-150		08/12/2022 17:30
13C3 PFHxS	1.1	1.0	96	25-150		08/12/2022 17:30
13C2 6:2FTS	1.1	1.1	102	25-150		08/12/2022 17:30
13C8 PFOA	1.2	1.1	95	25-150		08/12/2022 17:30
13C9 PFNA	1.2	1.2	105	25-150		08/12/2022 17:30
13C8 PFOS	1.1	1.2	111	25-150		08/12/2022 17:30
13C2 8:2FTS	1.1	0.96	87	25-150		08/12/2022 17:30
13C6 PFDA	1.2	1.1	92	25-150		08/12/2022 17:30
d3-MeFOSAA	1.2	1.1	96	25-150		08/12/2022 17:30
13C8 PFOSA	1.2	0.81	70	25-150		08/12/2022 17:30
d5-EtFOSAA	1.2	1.1	93	25-150		08/12/2022 17:30
13C7 PFUdA	1.2	0.98	85	25-150		08/12/2022 17:30
13C2 PFDoA	1.2	1.1	93	25-150		08/12/2022 17:30
13C2 PFTeDA	1.2	1.1	96	25-150		08/12/2022 17:30
13C3 HFPO-DA	1.2	1.1	93	25-150		08/12/2022 17:30
13C2 PFHxDA	1.2	1.0	91	25-150		08/12/2022 17:30
d7-N-MeFOSE	1.2	0.65	56	10-150		08/12/2022 17:30
d9-N-EtFOSE	1.2	0.66	57	10-150		08/12/2022 17:30
d3-N-MeFOSA	1.2	0.16	14	10-150		08/12/2022 17:30
d5-N-EtFOSA	1.2	0.16	14	10-150		08/12/2022 17:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(0-2)	Total Amount Extracted	5.02g
Lab Sample ID	10618249012	Percent Moisture	13.4791%
Lab File ID	B220812A_012	Dry Weight Extracted	4.35g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:45	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	18		08/12/2022 17:30
13C4 PFOA	N/A	N/A	7.13	7.07	26		08/12/2022 17:30
13C2 PFDA	N/A	N/A	8.51	8.39	27		08/12/2022 17:30
13C4 PFOS	N/A	N/A	8.99	8.99	54		08/12/2022 17:30

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.21	4.23	22		08/12/2022 17:30
13C5 PFPeA	N/A	N/A	5.14	5.10	26		08/12/2022 17:30
13C3 PFBS	N/A	N/A	6.07	6.12	60		08/12/2022 17:30
13C2 4:2FTS	N/A	N/A	5.56	5.63	43		08/12/2022 17:30
13C5 PFHxA	N/A	N/A	5.83	5.78	15		08/12/2022 17:30
13C4 PFHpA	N/A	N/A	6.49	6.42	28		08/12/2022 17:30
13C3 PFHxS	N/A	N/A	7.55	7.57	75		08/12/2022 17:30
13C2 6:2FTS	N/A	N/A	6.80	6.85	55		08/12/2022 17:30
13C8 PFOA	N/A	N/A	7.13	7.06	20		08/12/2022 17:30
13C9 PFNA	N/A	N/A	7.81	7.83	20		08/12/2022 17:30
13C8 PFOS	N/A	N/A	8.99	8.86	58		08/12/2022 17:30
13C2 8:2FTS	N/A	N/A	8.12	8.00	77		08/12/2022 17:30
13C6 PFDA	N/A	N/A	8.51	8.38	22		08/12/2022 17:30
d3-MeFOSAA	N/A	N/A	8.37	8.25	19		08/12/2022 17:30
13C8 PFOSA	N/A	N/A	10.64	10.42	19		08/12/2022 17:30
d5-EtFOSAA	N/A	N/A	8.67	8.54	15		08/12/2022 17:30
13C7 PFUdA	N/A	N/A	9.18	9.07	29		08/12/2022 17:30
13C2 PFDoA	N/A	N/A	9.84	9.71	12		08/12/2022 17:30
13C2 PFTeDA	N/A	N/A	11.13	11.02	22		08/12/2022 17:30
13C3 HFPO-DA	N/A	N/A	6.10	6.04	14		08/12/2022 17:30
13C2 PFHxDA	N/A	N/A	12.27	12.22	20		08/12/2022 17:30
d7-N-MeFOSE	N/A	N/A	12.49	12.44	68		08/12/2022 17:30
d9-N-EtFOSE	N/A	N/A	12.95	12.96	31		08/12/2022 17:30
d3-N-MeFOSA	N/A	N/A	12.69	12.65	51		08/12/2022 17:30
d5-N-EtFOSA	N/A	N/A	13.10	13.07	55		08/12/2022 17:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(0-2)	Total Amount Extracted	5.02g
Lab Sample ID	10618249012	Percent Moisture	13.4791%
Lab File ID	B220812A_012	Dry Weight Extracted	4.35g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:45	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.21	4.23	ND		08/12/2022 17:30
PFPeA	N/A	N/A	5.15	5.15	ND		08/12/2022 17:30
HFPO-DA	0.00	0.29	0.00	6.07	ND		08/12/2022 17:30
PFBS	0.43	0.42	6.08	6.08	ND		08/12/2022 17:30
PFHxA	0.10	0.09	5.84	5.81	ND		08/12/2022 17:30
4:2 FTS	0.00	0.78	0.00	5.54	ND		08/12/2022 17:30
PFPeS	0.31	0.41	6.83	6.79	ND		08/12/2022 17:30
PFHpA	0.36	0.30	6.49	6.44	ND		08/12/2022 17:30
DONA	0.00	0.63	0.00	6.67	ND		08/12/2022 17:30
PFHxS	0.38	0.37	7.56	7.49	15		08/12/2022 17:30
PFOA	0.43	0.32	7.14	7.08	ND		08/12/2022 17:30
6:2 FTS	0.85	0.89	6.80	6.74	47	J	08/12/2022 17:30
PFHpS	0.40	0.44	8.29	8.20	ND		08/12/2022 17:30
PFNA	0.11	0.13	7.82	7.73	ND		08/12/2022 17:30
PFOSAm	N/A	N/A	10.65	10.65	ND		08/12/2022 17:30
PFOS	0.38	0.44	9.00	8.90	25		08/12/2022 17:30
MeFOSA	0.00	0.58	0.00	12.69	ND		08/12/2022 17:30
PFDA	0.20	0.19	8.52	8.40	ND		08/12/2022 17:30
EtFOSAm	0.00	0.55	0.00	13.10	ND		08/12/2022 17:30
8:2 FTS	1.70	0.87	8.12	8.02	ND		08/12/2022 17:30
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/12/2022 17:30
PFNS	0.00	0.47	0.00	9.58	ND		08/12/2022 17:30
PFUnDA	0.13	0.14	9.19	9.05	ND		08/12/2022 17:30
NMeFOSAA	0.46	0.84	8.38	8.26	ND		08/12/2022 17:30
NEtFOSAA	0.92	0.60	8.69	8.55	ND		08/12/2022 17:30
PFDS	0.37	0.32	10.31	10.31	ND		08/12/2022 17:30
PFDOA	0.14	0.17	9.84	9.72	ND		08/12/2022 17:30
MeFOSE	N/A	N/A	0.00	12.45	ND		08/12/2022 17:30
EtFOSE	0.00	0.00	0.00	12.92	ND		08/12/2022 17:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/12/2022 17:30
PFTTrDA	0.11	0.17	10.50	10.37	ND		08/12/2022 17:30
PFDoS	0.00	0.47	0.00	11.43	ND		08/12/2022 17:30
PFTDA	0.20	0.24	11.13	11.02	ND		08/12/2022 17:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(2-4)	Total Amount Extracted	5.00g
Lab Sample ID	10618249013	Percent Moisture	10.3982%
Lab File ID	B220812A_013	Dry Weight Extracted	4.48g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:50	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.032	0.032	1	375-22-4		08/12/2022 17:50
PFPeA	ND	0.11	0.032	0.032	1	2706-90-3		08/12/2022 17:50
HFPO-DA	ND	0.11	0.031	0.031	1	13252-13-6		08/12/2022 17:50
PFBS	ND	0.099	0.029	0.029	1	375-73-5		08/12/2022 17:50
PFHxA	ND	0.11	0.031	0.031	1	307-24-4		08/12/2022 17:50
4:2 FTS	ND	0.10	0.026	0.026	1	757124-72-4		08/12/2022 17:50
PFPeS	ND	0.10	0.027	0.027	1	2706-91-4		08/12/2022 17:50
PFHpA	ND	0.11	0.039	0.039	1	375-85-9		08/12/2022 17:50
DONA	ND	0.11	0.040	0.040	1	919005-14-4		08/12/2022 17:50
PFHxS	0.095 J	0.10	0.024	0.024	1	355-46-4		08/12/2022 17:50
PFOA	ND	0.11	0.035	0.035	1	335-67-1		08/12/2022 17:50
6:2 FTS	ND	0.11	0.046	0.046	1	27619-97-2		08/12/2022 17:50
PFHpS	ND	0.11	0.031	0.031	1	375-92-8		08/12/2022 17:50
PFNA	ND	0.11	0.035	0.035	1	375-95-1		08/12/2022 17:50
PFOSAm	0.036 J	0.11	0.033	0.033	1	754-91-6		08/12/2022 17:50
PFOS	0.59	0.10	0.033	0.033	1	1763-23-1		08/12/2022 17:50
MeFOSA	ND	0.11	0.030	0.030	1	31506-32-8		08/12/2022 17:50
PFDA	ND	0.11	0.025	0.025	1	335-76-2		08/12/2022 17:50
EtFOSAm	ND	0.11	0.029	0.029	1	4151-50-2		08/12/2022 17:50
8:2 FTS	ND	0.11	0.049	0.049	1	39108-34-4		08/12/2022 17:50
9-CI-PF3ON	ND	0.10	0.028	0.028	1	756426-58-1		08/12/2022 17:50
PFNS	ND	0.11	0.039	0.039	1	68259-12-1		08/12/2022 17:50
PFUnDA	ND	0.11	0.034	0.034	1	2058-94-8		08/12/2022 17:50
NMeFOSAA	ND	0.11	0.031	0.031	1	2355-31-9		08/12/2022 17:50
NEtFOSAA	ND	0.11	0.045	0.045	1	2991-50-6		08/12/2022 17:50
PFDS	ND	0.11	0.031	0.031	1	335-77-3		08/12/2022 17:50
PFDOA	ND	0.11	0.037	0.037	1	307-55-1		08/12/2022 17:50
MeFOSE	ND	0.11	0.034	0.034	1	24448-09-7		08/12/2022 17:50
EtFOSE	ND	0.11	0.036	0.036	1	1691-99-2		08/12/2022 17:50
11-CI-PF3OUdS	ND	0.11	0.028	0.028	1	763051-92-9		08/12/2022 17:50
PFTTrDA	ND	0.11	0.036	0.036	1	72629-94-8		08/12/2022 17:50
PFDoS	ND	0.11	0.029	0.029	1	79780-39-5		08/12/2022 17:50
PFTDA	ND	0.11	0.038	0.038	1	376-06-7		08/12/2022 17:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(2-4)	Total Amount Extracted	5.00g
Lab Sample ID	10618249013	Percent Moisture	10.3982%
Lab File ID	B220812A_013	Dry Weight Extracted	4.48g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:50	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	118	50-150		08/12/2022 17:50
13C4 PFOA	1.1	1.2	105	50-150		08/12/2022 17:50
13C2 PFDA	1.1	1.2	104	50-150		08/12/2022 17:50
13C4 PFOS	1.1	1.1	101	50-150		08/12/2022 17:50

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	100	25-150		08/12/2022 17:50
13C5 PFPeA	1.1	1.2	105	25-150		08/12/2022 17:50
13C3 PFBS	1.0	1.1	105	25-150		08/12/2022 17:50
13C2 4:2FTS	1.0	1.00	96	25-150		08/12/2022 17:50
13C5 PFHxA	1.1	1.2	110	25-150		08/12/2022 17:50
13C4 PFHpA	1.1	1.2	104	25-150		08/12/2022 17:50
13C3 PFHxS	1.1	1.0	98	25-150		08/12/2022 17:50
13C2 6:2FTS	1.1	0.98	93	25-150		08/12/2022 17:50
13C8 PFOA	1.1	1.1	103	25-150		08/12/2022 17:50
13C9 PFNA	1.1	1.1	97	25-150		08/12/2022 17:50
13C8 PFOS	1.1	1.1	106	25-150		08/12/2022 17:50
13C2 8:2FTS	1.1	0.89	83	25-150		08/12/2022 17:50
13C6 PFDA	1.1	1.1	95	25-150		08/12/2022 17:50
d3-MeFOSAA	1.1	1.1	96	25-150		08/12/2022 17:50
13C8 PFOSA	1.1	0.78	70	25-150		08/12/2022 17:50
d5-EtFOSAA	1.1	1.1	98	25-150		08/12/2022 17:50
13C7 PFUdA	1.1	1.0	94	25-150		08/12/2022 17:50
13C2 PFDoA	1.1	1.2	107	25-150		08/12/2022 17:50
13C2 PFTeDA	1.1	1.1	95	25-150		08/12/2022 17:50
13C3 HFPO-DA	1.1	1.1	100	25-150		08/12/2022 17:50
13C2 PFHxDA	1.1	1.2	106	25-150		08/12/2022 17:50
d7-N-MeFOSE	1.1	0.61	55	10-150		08/12/2022 17:50
d9-N-EtFOSE	1.1	0.58	52	10-150		08/12/2022 17:50
d3-N-MeFOSA	1.1	0.12	11	10-150		08/12/2022 17:50
d5-N-EtFOSA	1.1	0.14	13	10-150		08/12/2022 17:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(2-4)	Total Amount Extracted	5.00g
Lab Sample ID	10618249013	Percent Moisture	10.3982%
Lab File ID	B220812A_013	Dry Weight Extracted	4.48g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:50	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.92	5.77	24		08/12/2022 17:50
13C4 PFOA	N/A	N/A	7.16	7.07	28		08/12/2022 17:50
13C2 PFDA	N/A	N/A	8.50	8.39	25		08/12/2022 17:50
13C4 PFOS	N/A	N/A	8.98	8.88	40		08/12/2022 17:50

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.29	4.23	18		08/12/2022 17:50
13C5 PFPeA	N/A	N/A	5.23	5.10	28		08/12/2022 17:50
13C3 PFBS	N/A	N/A	6.15	6.12	59		08/12/2022 17:50
13C2 4:2FTS	N/A	N/A	5.66	5.63	55		08/12/2022 17:50
13C5 PFHxA	N/A	N/A	5.92	5.78	18		08/12/2022 17:50
13C4 PFHpA	N/A	N/A	6.54	6.42	25		08/12/2022 17:50
13C3 PFHxS	N/A	N/A	7.57	7.57	64		08/12/2022 17:50
13C2 6:2FTS	N/A	N/A	6.84	6.85	41		08/12/2022 17:50
13C8 PFOA	N/A	N/A	7.16	7.06	28		08/12/2022 17:50
13C9 PFNA	N/A	N/A	7.82	7.83	21		08/12/2022 17:50
13C8 PFOS	N/A	N/A	8.98	8.86	51		08/12/2022 17:50
13C2 8:2FTS	N/A	N/A	8.11	8.00	63		08/12/2022 17:50
13C6 PFDA	N/A	N/A	8.50	8.38	18		08/12/2022 17:50
d3-MeFOSAA	N/A	N/A	8.36	8.25	26		08/12/2022 17:50
13C8 PFOSA	N/A	N/A	10.64	10.42	13		08/12/2022 17:50
d5-EtFOSAA	N/A	N/A	8.66	8.54	12		08/12/2022 17:50
13C7 PFUdA	N/A	N/A	9.17	9.07	27		08/12/2022 17:50
13C2 PFDoA	N/A	N/A	9.84	9.71	13		08/12/2022 17:50
13C2 PFTeDA	N/A	N/A	11.14	11.02	12		08/12/2022 17:50
13C3 HFPO-DA	N/A	N/A	6.18	6.04	13		08/12/2022 17:50
13C2 PFHxDA	N/A	N/A	12.30	12.30	20		08/12/2022 17:50
d7-N-MeFOSE	N/A	N/A	12.53	12.44	75		08/12/2022 17:50
d9-N-EtFOSE	N/A	N/A	12.98	12.96	29		08/12/2022 17:50
d3-N-MeFOSA	N/A	N/A	12.73	12.65	85		08/12/2022 17:50
d5-N-EtFOSA	N/A	N/A	13.13	13.07	44		08/12/2022 17:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(2-4)	Total Amount Extracted	5.00g
Lab Sample ID	10618249013	Percent Moisture	10.3982%
Lab File ID	B220812A_013	Dry Weight Extracted	4.48g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:50	CCal File	B220812A_002
Received	07/23/2022 11:35	Ending CCal File	B220812A_014
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.30	4.23	ND		08/12/2022 17:50
PFPeA	N/A	N/A	5.24	5.15	ND		08/12/2022 17:50
HFPO-DA	0.00	0.29	0.00	6.07	ND		08/12/2022 17:50
PFBS	0.96	0.42	6.16	6.16	ND		08/12/2022 17:50
PFHxA	0.11	0.09	5.93	5.81	ND		08/12/2022 17:50
4:2 FTS	0.00	0.78	0.00	5.54	ND		08/12/2022 17:50
PFPeS	0.28	0.41	6.88	6.88	ND		08/12/2022 17:50
PFHpA	0.44	0.30	6.55	6.44	ND		08/12/2022 17:50
DONA	0.00	0.63	0.00	6.67	ND		08/12/2022 17:50
PFHxS	0.35	0.37	7.57	7.49	11	J	08/12/2022 17:50
PFOA	0.33	0.32	7.17	7.08	ND		08/12/2022 17:50
6:2 FTS	0.85	0.89	6.84	6.74	ND		08/12/2022 17:50
PFHpS	0.54	0.44	8.30	8.20	ND		08/12/2022 17:50
PFNA	0.11	0.13	7.82	7.73	ND		08/12/2022 17:50
PFOSAm	N/A	N/A	10.65	10.65	22	J	08/12/2022 17:50
PFOS	0.38	0.44	8.99	8.90	20		08/12/2022 17:50
MeFOSA	0.00	0.58	0.00	12.69	ND		08/12/2022 17:50
PFDA	0.16	0.19	8.51	8.40	ND		08/12/2022 17:50
EtFOSAm	0.00	0.55	0.00	13.10	ND		08/12/2022 17:50
8:2 FTS	1.30	0.87	8.13	8.02	ND		08/12/2022 17:50
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/12/2022 17:50
PFNS	0.29	0.47	9.67	9.58	ND		08/12/2022 17:50
PFUnDA	0.12	0.14	9.18	9.05	ND		08/12/2022 17:50
NMeFOSAA	0.59	0.84	8.38	8.26	ND		08/12/2022 17:50
NEtFOSAA	0.93	0.60	8.67	8.55	ND		08/12/2022 17:50
PFDS	0.41	0.32	10.32	10.32	ND		08/12/2022 17:50
PFDOA	0.16	0.17	9.84	9.72	ND		08/12/2022 17:50
MeFOSE	N/A	N/A	0.00	12.45	ND		08/12/2022 17:50
EtFOSE	0.00	0.00	0.00	12.92	ND		08/12/2022 17:50
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/12/2022 17:50
PFTTrDA	0.16	0.17	10.50	10.37	ND		08/12/2022 17:50
PFDoS	0.00	0.47	0.00	11.43	ND		08/12/2022 17:50
PFTDA	0.25	0.24	11.14	11.02	ND		08/12/2022 17:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(4-6)	Total Amount Extracted	5.05g
Lab Sample ID	10618249014	Percent Moisture	13.6508%
Lab File ID	B220812A_015	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:55	CCal File	B220812A_014
Received	07/23/2022 11:35	Ending CCal File	B220812A_025
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.032	0.032	1	375-22-4		08/12/2022 18:30
PFPeA	ND	0.11	0.033	0.033	1	2706-90-3		08/12/2022 18:30
HFPO-DA	ND	0.11	0.032	0.032	1	13252-13-6		08/12/2022 18:30
PFBS	ND	0.10	0.030	0.030	1	375-73-5		08/12/2022 18:30
PFHxA	ND	0.11	0.032	0.032	1	307-24-4		08/12/2022 18:30
4:2 FTS	ND	0.11	0.026	0.026	1	757124-72-4		08/12/2022 18:30
PFPeS	ND	0.11	0.028	0.028	1	2706-91-4		08/12/2022 18:30
PFHpA	ND	0.11	0.040	0.040	1	375-85-9		08/12/2022 18:30
DONA	ND	0.11	0.042	0.042	1	919005-14-4		08/12/2022 18:30
PFHxS	0.060 J	0.10	0.025	0.025	1	355-46-4		08/12/2022 18:30
PFOA	ND	0.11	0.036	0.036	1	335-67-1		08/12/2022 18:30
6:2 FTS	ND	0.11	0.047	0.047	1	27619-97-2		08/12/2022 18:30
PFHpS	ND	0.11	0.032	0.032	1	375-92-8		08/12/2022 18:30
PFNA	ND	0.11	0.036	0.036	1	375-95-1		08/12/2022 18:30
PFOSAm	ND	0.11	0.034	0.034	1	754-91-6		08/12/2022 18:30
PFOS	0.31	0.11	0.034	0.034	1	1763-23-1		08/12/2022 18:30
MeFOSA	ND	0.11	0.031	0.031	1	31506-32-8		08/12/2022 18:30
PFDA	ND	0.11	0.026	0.026	1	335-76-2		08/12/2022 18:30
EtFOSAm	ND	0.11	0.029	0.029	1	4151-50-2		08/12/2022 18:30
8:2 FTS	ND	0.11	0.050	0.050	1	39108-34-4		08/12/2022 18:30
9-CI-PF3ON	ND	0.11	0.029	0.029	1	756426-58-1		08/12/2022 18:30
PFNS	ND	0.11	0.040	0.040	1	68259-12-1		08/12/2022 18:30
PFUnDA	ND	0.11	0.035	0.035	1	2058-94-8		08/12/2022 18:30
NMeFOSAA	ND	0.11	0.032	0.032	1	2355-31-9		08/12/2022 18:30
NEtFOSAA	ND	0.11	0.046	0.046	1	2991-50-6		08/12/2022 18:30
PFDS	ND	0.11	0.032	0.032	1	335-77-3		08/12/2022 18:30
PFDOA	ND	0.11	0.038	0.038	1	307-55-1		08/12/2022 18:30
MeFOSE	ND	0.11	0.035	0.035	1	24448-09-7		08/12/2022 18:30
EtFOSE	ND	0.11	0.037	0.037	1	1691-99-2		08/12/2022 18:30
11-CI-PF3OUdS	ND	0.11	0.029	0.029	1	763051-92-9		08/12/2022 18:30
PFTTrDA	ND	0.11	0.037	0.037	1	72629-94-8		08/12/2022 18:30
PFDoS	ND	0.11	0.030	0.030	1	79780-39-5		08/12/2022 18:30
PFTDA	ND	0.11	0.039	0.039	1	376-06-7		08/12/2022 18:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(4-6)	Total Amount Extracted	5.05g
Lab Sample ID	10618249014	Percent Moisture	13.6508%
Lab File ID	B220812A_015	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:55	CCal File	B220812A_014
Received	07/23/2022 11:35	Ending CCal File	B220812A_025
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	98	50-150		08/12/2022 18:30
13C4 PFOA	1.1	1.1	98	50-150		08/12/2022 18:30
13C2 PFDA	1.1	1.3	111	50-150		08/12/2022 18:30
13C4 PFOS	1.1	1.1	105	50-150		08/12/2022 18:30

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	95	25-150		08/12/2022 18:30
13C5 PFPeA	1.1	1.1	100	25-150		08/12/2022 18:30
13C3 PFBS	1.1	1.1	101	25-150		08/12/2022 18:30
13C2 4:2FTS	1.1	0.91	85	25-150		08/12/2022 18:30
13C5 PFHxA	1.1	1.1	96	25-150		08/12/2022 18:30
13C4 PFHpA	1.1	1.2	103	25-150		08/12/2022 18:30
13C3 PFHxS	1.1	1.1	99	25-150		08/12/2022 18:30
13C2 6:2FTS	1.1	0.99	91	25-150		08/12/2022 18:30
13C8 PFOA	1.1	1.1	93	25-150		08/12/2022 18:30
13C9 PFNA	1.1	1.1	97	25-150		08/12/2022 18:30
13C8 PFOS	1.1	1.2	111	25-150		08/12/2022 18:30
13C2 8:2FTS	1.1	1.0	93	25-150		08/12/2022 18:30
13C6 PFDA	1.1	1.3	110	25-150		08/12/2022 18:30
d3-MeFOSAA	1.1	1.2	102	25-150		08/12/2022 18:30
13C8 PFOSA	1.1	1.0	90	25-150		08/12/2022 18:30
d5-EtFOSAA	1.1	1.2	105	25-150		08/12/2022 18:30
13C7 PFUdA	1.1	1.4	122	25-150		08/12/2022 18:30
13C2 PFDoA	1.1	1.3	110	25-150		08/12/2022 18:30
13C2 PFTeDA	1.1	1.5	132	25-150		08/12/2022 18:30
13C3 HFPO-DA	1.1	1.1	94	25-150		08/12/2022 18:30
13C2 PFHxDA	1.1	1.3	115	25-150		08/12/2022 18:30
d7-N-MeFOSE	1.1	0.90	79	10-150		08/12/2022 18:30
d9-N-EtFOSE	1.1	0.98	85	10-150		08/12/2022 18:30
d3-N-MeFOSA	1.1	0.40	35	10-150		08/12/2022 18:30
d5-N-EtFOSA	1.1	0.38	33	10-150		08/12/2022 18:30

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(4-6)	Total Amount Extracted	5.05g
Lab Sample ID	10618249014	Percent Moisture	13.6508%
Lab File ID	B220812A_015	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:55	CCal File	B220812A_014
Received	07/23/2022 11:35	Ending CCal File	B220812A_025
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.89	5.77	14		08/12/2022 18:30
13C4 PFOA	N/A	N/A	7.15	7.07	19		08/12/2022 18:30
13C2 PFDA	N/A	N/A	8.52	8.39	33		08/12/2022 18:30
13C4 PFOS	N/A	N/A	9.00	9.00	41		08/12/2022 18:30

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.28	4.23	20		08/12/2022 18:30
13C5 PFPeA	N/A	N/A	5.21	5.10	24		08/12/2022 18:30
13C3 PFBS	N/A	N/A	6.12	6.12	42		08/12/2022 18:30
13C2 4:2FTS	N/A	N/A	5.63	5.63	42		08/12/2022 18:30
13C5 PFHxA	N/A	N/A	5.89	5.78	14		08/12/2022 18:30
13C4 PFHpA	N/A	N/A	6.52	6.42	19		08/12/2022 18:30
13C3 PFHxS	N/A	N/A	7.57	7.57	74		08/12/2022 18:30
13C2 6:2FTS	N/A	N/A	6.82	6.85	34		08/12/2022 18:30
13C8 PFOA	N/A	N/A	7.15	7.06	22		08/12/2022 18:30
13C9 PFNA	N/A	N/A	7.83	7.83	20		08/12/2022 18:30
13C8 PFOS	N/A	N/A	9.00	8.86	40		08/12/2022 18:30
13C2 8:2FTS	N/A	N/A	8.13	8.00	45		08/12/2022 18:30
13C6 PFDA	N/A	N/A	8.52	8.38	19		08/12/2022 18:30
d3-MeFOSAA	N/A	N/A	8.38	8.25	36		08/12/2022 18:30
13C8 PFOSA	N/A	N/A	10.66	10.42	14		08/12/2022 18:30
d5-EtFOSAA	N/A	N/A	8.69	8.54	11		08/12/2022 18:30
13C7 PFUdA	N/A	N/A	9.20	9.07	24		08/12/2022 18:30
13C2 PFDoA	N/A	N/A	9.87	9.71	95		08/12/2022 18:30
13C2 PFTeDA	N/A	N/A	11.15	11.02	15		08/12/2022 18:30
13C3 HFPO-DA	N/A	N/A	6.14	6.04	15		08/12/2022 18:30
13C2 PFHxDA	N/A	N/A	12.27	12.22	26		08/12/2022 18:30
d7-N-MeFOSE	N/A	N/A	12.50	12.44	66		08/12/2022 18:30
d9-N-EtFOSE	N/A	N/A	12.95	12.96	34		08/12/2022 18:30
d3-N-MeFOSA	N/A	N/A	12.69	12.65	72		08/12/2022 18:30
d5-N-EtFOSA	N/A	N/A	13.11	13.07	57		08/12/2022 18:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB5_(4-6)	Total Amount Extracted	5.05g
Lab Sample ID	10618249014	Percent Moisture	13.6508%
Lab File ID	B220812A_015	Dry Weight Extracted	4.36g
Matrix	Solid	Ical ID	220810B02
Collected	07/20/2022 14:55	CCal File	B220812A_014
Received	07/23/2022 11:35	Ending CCal File	B220812A_025
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.23	ND		08/12/2022 18:30
PFPeA	N/A	N/A	5.24	5.15	ND		08/12/2022 18:30
HFPO-DA	0.00	0.27	0.00	6.07	ND		08/12/2022 18:30
PFBS	0.26	0.45	6.13	6.13	ND		08/12/2022 18:30
PFHxA	0.12	0.08	5.90	5.90	ND		08/12/2022 18:30
4:2 FTS	0.00	0.76	0.00	5.54	ND		08/12/2022 18:30
PFPeS	0.36	0.40	6.85	6.79	ND		08/12/2022 18:30
PFHpA	0.00	0.29	0.00	6.44	ND		08/12/2022 18:30
DONA	0.00	0.55	0.00	6.67	ND		08/12/2022 18:30
PFHxS	0.23	0.37	7.57	7.49	57	J	08/12/2022 18:30
PFOA	0.57	0.36	7.16	7.08	ND		08/12/2022 18:30
6:2 FTS	0.97	0.87	6.82	6.74	ND		08/12/2022 18:30
PFHpS	0.33	0.39	8.31	8.20	ND		08/12/2022 18:30
PFNA	0.15	0.15	7.83	7.73	ND		08/12/2022 18:30
PFOSAm	N/A	N/A	10.67	10.67	ND		08/12/2022 18:30
PFOS	0.37	0.41	9.01	8.90	16		08/12/2022 18:30
MeFOSA	0.00	0.52	0.00	12.69	ND		08/12/2022 18:30
PFDA	0.12	0.18	8.53	8.40	ND		08/12/2022 18:30
EtFOSAm	0.00	0.58	0.00	13.10	ND		08/12/2022 18:30
8:2 FTS	3.70	0.93	8.14	8.02	ND		08/12/2022 18:30
9-CI-PF3ON	0.00	0.05	0.00	9.39	ND		08/12/2022 18:30
PFNS	0.00	0.50	0.00	9.58	ND		08/12/2022 18:30
PFUnDA	0.13	0.13	9.20	9.05	ND		08/12/2022 18:30
NMeFOSAA	1.80	0.79	8.38	8.26	ND		08/12/2022 18:30
NEtFOSAA	0.56	0.56	8.70	8.55	ND		08/12/2022 18:30
PFDS	0.36	0.35	10.34	10.34	ND		08/12/2022 18:30
PFDOA	0.17	0.18	9.87	9.72	ND		08/12/2022 18:30
MeFOSE	N/A	N/A	0.00	12.45	ND		08/12/2022 18:30
EtFOSE	0.00	0.00	0.00	12.92	ND		08/12/2022 18:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/12/2022 18:30
PFTTrDA	0.15	0.15	10.51	10.37	ND		08/12/2022 18:30
PFDoS	0.00	0.47	0.00	11.43	ND		08/12/2022 18:30
PFTDA	0.18	0.27	11.16	11.02	ND		08/12/2022 18:30

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(0-2)	Total Amount Extracted	5.21g
Lab Sample ID	10618249015	Percent Moisture	42.9746%
Lab File ID	B220822A_030	Dry Weight Extracted	2.97g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:45	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.17	0.048	0.048	1	375-22-4		08/22/2022 18:07
PFPeA	ND	0.17	0.048	0.048	1	2706-90-3		08/22/2022 18:07
HFPO-DA	ND	0.17	0.047	0.047	1	13252-13-6		08/22/2022 18:07
PFBS	ND	0.15	0.044	0.044	1	375-73-5		08/22/2022 18:07
PFHxA	ND	0.17	0.046	0.046	1	307-24-4		08/22/2022 18:07
4:2 FTS	ND	0.16	0.039	0.039	1	757124-72-4		08/22/2022 18:07
PFPeS	ND	0.16	0.040	0.040	1	2706-91-4		08/22/2022 18:07
PFHpA	ND	0.17	0.058	0.058	1	375-85-9		08/22/2022 18:07
DONA	ND	0.16	0.061	0.061	1	919005-14-4		08/22/2022 18:07
PFHxS	0.14 J	0.15	0.037	0.037	1	355-46-4		08/22/2022 18:07
PFOA	0.057 J	0.17	0.052	0.052	1	335-67-1		08/22/2022 18:07
6:2 FTS	0.084 J	0.16	0.070	0.070	1	27619-97-2		08/22/2022 18:07
PFHpS	ND	0.16	0.047	0.047	1	375-92-8		08/22/2022 18:07
PFNA	ND	0.17	0.052	0.052	1	375-95-1		08/22/2022 18:07
PFOSAm	0.38	0.17	0.049	0.049	1	754-91-6		08/22/2022 18:07
PFOS	3.4	0.16	0.050	0.050	1	1763-23-1		08/22/2022 18:07
MeFOSA	ND	0.17	0.046	0.046	1	31506-32-8		08/22/2022 18:07
PFDA	0.040 J	0.17	0.038	0.038	1	335-76-2		08/22/2022 18:07
EtFOSAm	ND	0.17	0.043	0.043	1	4151-50-2		08/22/2022 18:07
8:2 FTS	0.10 IJ	0.16	0.074	0.074	1	39108-34-4		08/22/2022 18:07
9-CI-PF3ON	ND	0.16	0.042	0.042	1	756426-58-1		08/22/2022 18:07
PFNS	ND	0.16	0.058	0.058	1	68259-12-1		08/22/2022 18:07
PFUnDA	ND	0.17	0.051	0.051	1	2058-94-8		08/22/2022 18:07
NMeFOSAA	0.63	0.17	0.047	0.047	1	2355-31-9		08/22/2022 18:07
NEtFOSAA	1.9	0.17	0.068	0.068	1	2991-50-6		08/22/2022 18:07
PFDS	0.87	0.16	0.047	0.047	1	335-77-3		08/22/2022 18:07
PFDOA	0.064 J	0.17	0.055	0.055	1	307-55-1		08/22/2022 18:07
MeFOSE	0.20	0.17	0.051	0.051	1	24448-09-7		08/22/2022 18:07
EtFOSE	0.11 J	0.17	0.054	0.054	1	1691-99-2		08/22/2022 18:07
11-CI-PF3OUdS	ND	0.16	0.043	0.043	1	763051-92-9		08/22/2022 18:07
PFTTrDA	ND	0.17	0.054	0.054	1	72629-94-8		08/22/2022 18:07
PFDoS	ND	0.16	0.044	0.044	1	79780-39-5		08/22/2022 18:07
PFTDA	ND	0.17	0.058	0.058	1	376-06-7		08/22/2022 18:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(0-2)	Total Amount Extracted	5.21g
Lab Sample ID	10618249015	Percent Moisture	42.9746%
Lab File ID	B220822A_030	Dry Weight Extracted	2.97g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:45	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.7	1.2	69	50-150		08/22/2022 18:07
13C4 PFOA	1.7	1.1	64	50-150		08/22/2022 18:07
13C2 PFDA	1.7	0.89	53	50-150		08/22/2022 18:07
13C4 PFOS	1.6	0.91	57	50-150		08/22/2022 18:07

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.7	0.91	54	25-150		08/22/2022 18:07
13C5 PFPeA	1.7	0.90	54	25-150		08/22/2022 18:07
13C3 PFBS	1.6	0.82	52	25-150		08/22/2022 18:07
13C2 4:2FTS	1.6	1.4	86	25-150		08/22/2022 18:07
13C5 PFHxA	1.7	0.96	57	25-150		08/22/2022 18:07
13C4 PFHpA	1.7	0.85	51	25-150		08/22/2022 18:07
13C3 PFHxS	1.6	0.82	51	25-150		08/22/2022 18:07
13C2 6:2FTS	1.6	1.2	74	25-150		08/22/2022 18:07
13C8 PFOA	1.7	1.0	60	25-150		08/22/2022 18:07
13C9 PFNA	1.7	0.92	55	25-150		08/22/2022 18:07
13C8 PFOS	1.6	0.82	51	25-150		08/22/2022 18:07
13C2 8:2FTS	1.6	1.1	68	25-150		08/22/2022 18:07
13C6 PFDA	1.7	0.89	53	25-150		08/22/2022 18:07
d3-MeFOSAA	1.7	1.0	62	25-150		08/22/2022 18:07
13C8 PFOSA	1.7	0.48	29	25-150		08/22/2022 18:07
d5-EtFOSAA	1.7	1.0	61	25-150		08/22/2022 18:07
13C7 PFUdA	1.7	1.1	64	25-150		08/22/2022 18:07
13C2 PFDoA	1.7	1.1	66	25-150		08/22/2022 18:07
13C2 PFTeDA	1.7	1.1	66	25-150		08/22/2022 18:07
13C3 HFPO-DA	1.7	0.89	53	25-150		08/22/2022 18:07
13C2 PFHxDA	1.7	0.79	47	25-150		08/22/2022 18:07
d7-N-MeFOSE	1.7	0.24	15	10-150		08/22/2022 18:07
d9-N-EtFOSE	1.7	0.25	15	10-150		08/22/2022 18:07
d3-N-MeFOSA	1.7	0.049	3	10-150	R	08/22/2022 18:07
d5-N-EtFOSA	1.7	0.064	4	10-150	R	08/22/2022 18:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(0-2)	Total Amount Extracted	5.21g
Lab Sample ID	10618249015	Percent Moisture	42.9746%
Lab File ID	B220822A_030	Dry Weight Extracted	2.97g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:45	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.77	12		08/22/2022 18:07
13C4 PFOA	N/A	N/A	7.09	7.07	12		08/22/2022 18:07
13C2 PFDA	N/A	N/A	8.41	8.39	98		08/22/2022 18:07
13C4 PFOS	N/A	N/A	8.89	8.88	25		08/22/2022 18:07

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.27	4.23	14		08/22/2022 18:07
13C5 PFPeA	N/A	N/A	5.19	5.10	14		08/22/2022 18:07
13C3 PFBS	N/A	N/A	6.09	6.02	31		08/22/2022 18:07
13C2 4:2FTS	N/A	N/A	5.59	5.51	26		08/22/2022 18:07
13C5 PFHxA	N/A	N/A	5.85	5.78	96		08/22/2022 18:07
13C4 PFHpA	N/A	N/A	6.47	6.42	12		08/22/2022 18:07
13C3 PFHxS	N/A	N/A	7.50	7.47	50		08/22/2022 18:07
13C2 6:2FTS	N/A	N/A	6.76	6.73	23		08/22/2022 18:07
13C8 PFOA	N/A	N/A	7.09	7.06	13		08/22/2022 18:07
13C9 PFNA	N/A	N/A	7.74	7.71	13		08/22/2022 18:07
13C8 PFOS	N/A	N/A	8.89	8.86	25		08/22/2022 18:07
13C2 8:2FTS	N/A	N/A	8.03	8.00	26		08/22/2022 18:07
13C6 PFDA	N/A	N/A	8.41	8.38	11		08/22/2022 18:07
d3-MeFOSAA	N/A	N/A	8.27	8.25	94		08/22/2022 18:07
13C8 PFOSA	N/A	N/A	10.49	10.42	95		08/22/2022 18:07
d5-EtFOSAA	N/A	N/A	8.56	8.54	84		08/22/2022 18:07
13C7 PFUdA	N/A	N/A	9.08	9.07	13		08/22/2022 18:07
13C2 PFDoA	N/A	N/A	9.74	9.71	82		08/22/2022 18:07
13C2 PFTeDA	N/A	N/A	11.03	11.02	12		08/22/2022 18:07
13C3 HFPO-DA	N/A	N/A	6.11	6.04	12		08/22/2022 18:07
13C2 PFHxDA	N/A	N/A	12.18	12.22	12		08/22/2022 18:07
d7-N-MeFOSE	N/A	N/A	12.47	12.44	52		08/22/2022 18:07
d9-N-EtFOSE	N/A	N/A	12.95	12.88	24		08/22/2022 18:07
d3-N-MeFOSA	N/A	N/A	12.68	12.65	17	R	08/22/2022 18:07
d5-N-EtFOSA	N/A	N/A	13.10	13.07	25	R	08/22/2022 18:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(0-2)	Total Amount Extracted	5.21g
Lab Sample ID	10618249015	Percent Moisture	42.9746%
Lab File ID	B220822A_030	Dry Weight Extracted	2.97g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:45	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.27	4.23	ND		08/22/2022 18:07
PFPeA	N/A	N/A	5.10	5.15	ND		08/22/2022 18:07
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/22/2022 18:07
PFBS	0.00	0.46	0.00	6.02	ND		08/22/2022 18:07
PFHxA	0.11	0.07	5.86	5.86	ND		08/22/2022 18:07
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/22/2022 18:07
PFPeS	0.28	0.43	6.80	6.79	ND		08/22/2022 18:07
PFHpA	0.41	0.32	6.47	6.44	ND		08/22/2022 18:07
DONA	0.00	0.58	0.00	6.67	ND		08/22/2022 18:07
PFHxS	0.38	0.38	7.51	7.49	63	J	08/22/2022 18:07
PFOA	0.34	0.43	7.10	7.08	45	J	08/22/2022 18:07
6:2 FTS	0.82	0.80	6.77	6.74	16	J	08/22/2022 18:07
PFHpS	0.19	0.37	8.21	8.20	ND		08/22/2022 18:07
PFNA	0.12	0.13	7.74	7.73	ND		08/22/2022 18:07
PFOSAm	N/A	N/A	10.50	10.44	45		08/22/2022 18:07
PFOS	0.38	0.38	8.90	8.90	32		08/22/2022 18:07
MeFOSA	0.00	0.50	0.00	12.69	ND		08/22/2022 18:07
PFDA	0.20	0.18	8.42	8.40	46	J	08/22/2022 18:07
EtFOSAm	0.00	0.52	0.00	13.10	ND		08/22/2022 18:07
8:2 FTS	1.70	0.82	8.04	8.02	10	IJ	08/22/2022 18:07
9-Cl-PF3ON	0.00	0.06	0.00	9.39	ND		08/22/2022 18:07
PFNS	0.45	0.50	9.56	9.58	ND		08/22/2022 18:07
PFUnDA	0.11	0.14	9.08	9.05	ND		08/22/2022 18:07
NMeFOSAA	0.77	0.73	8.28	8.26	57		08/22/2022 18:07
NEtFOSAA	0.64	0.67	8.57	8.55	43		08/22/2022 18:07
PFDS	0.37	0.36	10.21	10.19	23		08/22/2022 18:07
PFDOA	0.16	0.16	9.74	9.72	12	J	08/22/2022 18:07
MeFOSE	N/A	N/A	12.52	12.45	65		08/22/2022 18:07
EtFOSE	0.00	0.00	12.98	12.92	55	J	08/22/2022 18:07
11-Cl-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/22/2022 18:07
PFTrDA	0.14	0.15	10.40	10.37	ND		08/22/2022 18:07
PFDoS	0.59	0.46	11.43	11.43	ND		08/22/2022 18:07
PFTDA	0.22	0.23	11.03	11.02	ND		08/22/2022 18:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(2-4)	Total Amount Extracted	5.13g
Lab Sample ID	10618249016	Percent Moisture	43.5452%
Lab File ID	B220822A_031	Dry Weight Extracted	2.90g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:50	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.17	0.049	0.049	1	375-22-4		08/22/2022 18:27
PFPeA	ND	0.17	0.049	0.049	1	2706-90-3		08/22/2022 18:27
HFPO-DA	ND	0.17	0.048	0.048	1	13252-13-6		08/22/2022 18:27
PFBS	ND	0.15	0.045	0.045	1	375-73-5		08/22/2022 18:27
PFHxA	ND	0.17	0.047	0.047	1	307-24-4		08/22/2022 18:27
4:2 FTS	ND	0.16	0.040	0.040	1	757124-72-4		08/22/2022 18:27
PFPeS	ND	0.16	0.041	0.041	1	2706-91-4		08/22/2022 18:27
PFHpA	ND	0.17	0.060	0.060	1	375-85-9		08/22/2022 18:27
DONA	ND	0.16	0.063	0.063	1	919005-14-4		08/22/2022 18:27
PFHxS	0.13 J	0.16	0.038	0.038	1	355-46-4		08/22/2022 18:27
PFOA	ND	0.17	0.054	0.054	1	335-67-1		08/22/2022 18:27
6:2 FTS	ND	0.16	0.071	0.071	1	27619-97-2		08/22/2022 18:27
PFHpS	ND	0.16	0.048	0.048	1	375-92-8		08/22/2022 18:27
PFNA	ND	0.17	0.054	0.054	1	375-95-1		08/22/2022 18:27
PFOSAm	1.9	0.17	0.051	0.051	1	754-91-6		08/22/2022 18:27
PFOS	1.8	0.16	0.051	0.051	1	1763-23-1		08/22/2022 18:27
MeFOSA	ND	0.17	0.047	0.047	1	31506-32-8		08/22/2022 18:27
PFDA	ND	0.17	0.039	0.039	1	335-76-2		08/22/2022 18:27
EtFOSAm	ND	0.17	0.044	0.044	1	4151-50-2		08/22/2022 18:27
8:2 FTS	ND	0.17	0.076	0.076	1	39108-34-4		08/22/2022 18:27
9-CI-PF3ON	ND	0.16	0.043	0.043	1	756426-58-1		08/22/2022 18:27
PFNS	ND	0.17	0.060	0.060	1	68259-12-1		08/22/2022 18:27
PFUnDA	ND	0.17	0.052	0.052	1	2058-94-8		08/22/2022 18:27
NMeFOSAA	0.19	0.17	0.048	0.048	1	2355-31-9		08/22/2022 18:27
NEtFOSAA	2.6	0.17	0.069	0.069	1	2991-50-6		08/22/2022 18:27
PFDS	0.28	0.17	0.049	0.049	1	335-77-3		08/22/2022 18:27
PFDOA	ND	0.17	0.057	0.057	1	307-55-1		08/22/2022 18:27
MeFOSE	0.054 J	0.17	0.052	0.052	1	24448-09-7		08/22/2022 18:27
EtFOSE	0.061 J	0.17	0.056	0.056	1	1691-99-2		08/22/2022 18:27
11-CI-PF3OUdS	ND	0.16	0.044	0.044	1	763051-92-9		08/22/2022 18:27
PFTTrDA	ND	0.17	0.055	0.055	1	72629-94-8		08/22/2022 18:27
PFDoS	ND	0.17	0.045	0.045	1	79780-39-5		08/22/2022 18:27
PFTDA	ND	0.17	0.059	0.059	1	376-06-7		08/22/2022 18:27

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(2-4)	Total Amount Extracted	5.13g
Lab Sample ID	10618249016	Percent Moisture	43.5452%
Lab File ID	B220822A_031	Dry Weight Extracted	2.90g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:50	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.7	1.7	96	50-150		08/22/2022 18:27
13C4 PFOA	1.7	1.6	95	50-150		08/22/2022 18:27
13C2 PFDA	1.7	1.8	105	50-150		08/22/2022 18:27
13C4 PFOS	1.7	1.4	86	50-150		08/22/2022 18:27

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.7	1.5	84	25-150		08/22/2022 18:27
13C5 PFPeA	1.7	1.4	81	25-150		08/22/2022 18:27
13C3 PFBS	1.6	1.4	85	25-150		08/22/2022 18:27
13C2 4:2FTS	1.6	2.7	169	25-150	R	08/22/2022 18:27
13C5 PFHxA	1.7	1.5	85	25-150		08/22/2022 18:27
13C4 PFHpA	1.7	1.3	78	25-150		08/22/2022 18:27
13C3 PFHxS	1.6	1.4	86	25-150		08/22/2022 18:27
13C2 6:2FTS	1.6	2.0	122	25-150		08/22/2022 18:27
13C8 PFOA	1.7	1.6	93	25-150		08/22/2022 18:27
13C9 PFNA	1.7	1.7	96	25-150		08/22/2022 18:27
13C8 PFOS	1.7	1.3	79	25-150		08/22/2022 18:27
13C2 8:2FTS	1.7	2.2	134	25-150		08/22/2022 18:27
13C6 PFDA	1.7	1.7	96	25-150		08/22/2022 18:27
d3-MeFOSAA	1.7	1.8	106	25-150		08/22/2022 18:27
13C8 PFOSA	1.7	0.78	45	25-150		08/22/2022 18:27
d5-EtFOSAA	1.7	1.9	108	25-150		08/22/2022 18:27
13C7 PFUdA	1.7	1.8	103	25-150		08/22/2022 18:27
13C2 PFDoA	1.7	1.7	101	25-150		08/22/2022 18:27
13C2 PFTeDA	1.7	1.9	109	25-150		08/22/2022 18:27
13C3 HFPO-DA	1.7	1.3	74	25-150		08/22/2022 18:27
13C2 PFHxDA	1.7	1.5	84	25-150		08/22/2022 18:27
d7-N-MeFOSE	1.7	0.40	23	10-150		08/22/2022 18:27
d9-N-EtFOSE	1.7	0.51	30	10-150		08/22/2022 18:27
d3-N-MeFOSA	1.7	0.013	1	10-150	R	08/22/2022 18:27
d5-N-EtFOSA	1.7	0.017	1	10-150	R	08/22/2022 18:27

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(2-4)	Total Amount Extracted	5.13g
Lab Sample ID	10618249016	Percent Moisture	43.5452%
Lab File ID	B220822A_031	Dry Weight Extracted	2.90g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:50	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.77	13		08/22/2022 18:27
13C4 PFOA	N/A	N/A	7.09	7.07	16		08/22/2022 18:27
13C2 PFDA	N/A	N/A	8.40	8.39	12		08/22/2022 18:27
13C4 PFOS	N/A	N/A	8.87	8.88	26		08/22/2022 18:27

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.27	4.23	19		08/22/2022 18:27
13C5 PFPeA	N/A	N/A	5.20	5.10	15		08/22/2022 18:27
13C3 PFBS	N/A	N/A	6.09	6.02	44		08/22/2022 18:27
13C2 4:2FTS	N/A	N/A	5.61	5.51	32	R	08/22/2022 18:27
13C5 PFHxA	N/A	N/A	5.87	5.78	11		08/22/2022 18:27
13C4 PFHpA	N/A	N/A	6.48	6.42	11		08/22/2022 18:27
13C3 PFHxS	N/A	N/A	7.49	7.47	48		08/22/2022 18:27
13C2 6:2FTS	N/A	N/A	6.77	6.73	24		08/22/2022 18:27
13C8 PFOA	N/A	N/A	7.09	7.06	12		08/22/2022 18:27
13C9 PFNA	N/A	N/A	7.73	7.71	12		08/22/2022 18:27
13C8 PFOS	N/A	N/A	8.87	8.86	27		08/22/2022 18:27
13C2 8:2FTS	N/A	N/A	8.02	8.00	43		08/22/2022 18:27
13C6 PFDA	N/A	N/A	8.40	8.38	13		08/22/2022 18:27
d3-MeFOSAA	N/A	N/A	8.26	8.25	18		08/22/2022 18:27
13C8 PFOSA	N/A	N/A	10.49	10.42	11		08/22/2022 18:27
d5-EtFOSAA	N/A	N/A	8.55	8.54	12		08/22/2022 18:27
13C7 PFUdA	N/A	N/A	9.06	9.07	14		08/22/2022 18:27
13C2 PFDoA	N/A	N/A	9.72	9.71	67		08/22/2022 18:27
13C2 PFTeDA	N/A	N/A	11.01	11.02	14		08/22/2022 18:27
13C3 HFPO-DA	N/A	N/A	6.11	6.04	11		08/22/2022 18:27
13C2 PFHxDA	N/A	N/A	12.16	12.22	12		08/22/2022 18:27
d7-N-MeFOSE	N/A	N/A	12.47	12.44	58		08/22/2022 18:27
d9-N-EtFOSE	N/A	N/A	12.94	12.88	39		08/22/2022 18:27
d3-N-MeFOSA	N/A	N/A	12.68	12.65	65	R	08/22/2022 18:27
d5-N-EtFOSA	N/A	N/A	13.10	13.07	14	R	08/22/2022 18:27

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(2-4)	Total Amount Extracted	5.13g
Lab Sample ID	10618249016	Percent Moisture	43.5452%
Lab File ID	B220822A_031	Dry Weight Extracted	2.90g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:50	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.23	ND		08/22/2022 18:27
PFPeA	N/A	N/A	5.10	5.15	ND		08/22/2022 18:27
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/22/2022 18:27
PFBS	0.21	0.46	6.10	6.10	ND		08/22/2022 18:27
PFHxA	0.00	0.07	0.00	5.87	ND		08/22/2022 18:27
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/22/2022 18:27
PFPeS	0.43	0.43	6.81	6.79	ND		08/22/2022 18:27
PFHpA	0.22	0.32	6.48	6.44	ND		08/22/2022 18:27
DONA	0.00	0.58	0.00	6.67	ND		08/22/2022 18:27
PFHxS	0.34	0.38	7.50	7.49	72	J	08/22/2022 18:27
PFOA	0.45	0.43	7.10	7.08	ND		08/22/2022 18:27
6:2 FTS	0.91	0.80	6.77	6.74	ND		08/22/2022 18:27
PFHpS	0.27	0.37	8.20	8.20	ND		08/22/2022 18:27
PFNA	0.05	0.13	7.74	7.73	ND		08/22/2022 18:27
PFOSAm	N/A	N/A	10.50	10.44	54		08/22/2022 18:27
PFOS	0.37	0.38	8.88	8.90	20		08/22/2022 18:27
MeFOSA	0.00	0.50	0.00	12.69	ND		08/22/2022 18:27
PFDA	0.21	0.18	8.41	8.40	ND		08/22/2022 18:27
EtFOSAm	0.00	0.52	0.00	13.10	ND		08/22/2022 18:27
8:2 FTS	1.90	0.82	8.03	8.02	ND		08/22/2022 18:27
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/22/2022 18:27
PFNS	0.47	0.50	9.54	9.58	ND		08/22/2022 18:27
PFUnDA	0.11	0.14	9.07	9.05	ND		08/22/2022 18:27
NMeFOSAA	0.78	0.73	8.27	8.26	46		08/22/2022 18:27
NEtFOSAA	0.68	0.67	8.56	8.55	50		08/22/2022 18:27
PFDS	0.36	0.36	10.20	10.19	18		08/22/2022 18:27
PFDOA	0.19	0.16	9.73	9.72	ND		08/22/2022 18:27
MeFOSE	N/A	N/A	12.50	12.45	33	J	08/22/2022 18:27
EtFOSE	0.00	0.00	12.97	12.92	35	J	08/22/2022 18:27
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/22/2022 18:27
PFTTrDA	0.18	0.15	10.38	10.37	ND		08/22/2022 18:27
PFDoS	0.47	0.46	11.41	11.43	ND		08/22/2022 18:27
PFTDA	0.19	0.23	11.01	11.02	ND		08/22/2022 18:27

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(4-6)	Total Amount Extracted	5.13g
Lab Sample ID	10618249017	Percent Moisture	38.2479%
Lab File ID	B220822A_032	Dry Weight Extracted	3.17g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:55	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.16	0.045	0.045	1	375-22-4		08/22/2022 18:47
PFPeA	ND	0.16	0.045	0.045	1	2706-90-3		08/22/2022 18:47
HFPO-DA	ND	0.16	0.044	0.044	1	13252-13-6		08/22/2022 18:47
PFBS	ND	0.14	0.041	0.041	1	375-73-5		08/22/2022 18:47
PFHxA	ND	0.16	0.043	0.043	1	307-24-4		08/22/2022 18:47
4:2 FTS	ND	0.15	0.036	0.036	1	757124-72-4		08/22/2022 18:47
PFPeS	ND	0.15	0.038	0.038	1	2706-91-4		08/22/2022 18:47
PFHpA	ND	0.16	0.055	0.055	1	375-85-9		08/22/2022 18:47
DONA	ND	0.15	0.057	0.057	1	919005-14-4		08/22/2022 18:47
PFHxS	0.051 J	0.14	0.035	0.035	1	355-46-4		08/22/2022 18:47
PFOA	ND	0.16	0.049	0.049	1	335-67-1		08/22/2022 18:47
6:2 FTS	0.073 J	0.15	0.065	0.065	1	27619-97-2		08/22/2022 18:47
PFHpS	ND	0.15	0.044	0.044	1	375-92-8		08/22/2022 18:47
PFNA	ND	0.16	0.049	0.049	1	375-95-1		08/22/2022 18:47
PFOSAm	0.90	0.16	0.046	0.046	1	754-91-6		08/22/2022 18:47
PFOS	0.45	0.15	0.047	0.047	1	1763-23-1		08/22/2022 18:47
MeFOSA	ND	0.16	0.043	0.043	1	31506-32-8		08/22/2022 18:47
PFDA	ND	0.16	0.036	0.036	1	335-76-2		08/22/2022 18:47
EtFOSAm	ND	0.16	0.040	0.040	1	4151-50-2		08/22/2022 18:47
8:2 FTS	ND	0.15	0.069	0.069	1	39108-34-4		08/22/2022 18:47
9-CI-PF3ON	ND	0.15	0.040	0.040	1	756426-58-1		08/22/2022 18:47
PFNS	ND	0.15	0.055	0.055	1	68259-12-1		08/22/2022 18:47
PFUnDA	ND	0.16	0.048	0.048	1	2058-94-8		08/22/2022 18:47
NMeFOSAA	0.36	0.16	0.044	0.044	1	2355-31-9		08/22/2022 18:47
NEtFOSAA	1.6	0.16	0.063	0.063	1	2991-50-6		08/22/2022 18:47
PFDS	ND	0.15	0.044	0.044	1	335-77-3		08/22/2022 18:47
PFDOA	ND	0.16	0.052	0.052	1	307-55-1		08/22/2022 18:47
MeFOSE	0.056 J	0.16	0.048	0.048	1	24448-09-7		08/22/2022 18:47
EtFOSE	ND	0.16	0.051	0.051	1	1691-99-2		08/22/2022 18:47
11-CI-PF3OUdS	ND	0.15	0.040	0.040	1	763051-92-9		08/22/2022 18:47
PFTTrDA	0.20 I	0.16	0.050	0.050	1	72629-94-8		08/22/2022 18:47
PFDoS	ND	0.15	0.041	0.041	1	79780-39-5		08/22/2022 18:47
PFTDA	ND	0.16	0.054	0.054	1	376-06-7		08/22/2022 18:47

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(4-6)	Total Amount Extracted	5.13g
Lab Sample ID	10618249017	Percent Moisture	38.2479%
Lab File ID	B220822A_032	Dry Weight Extracted	3.17g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:55	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.6	1.6	99	50-150		08/22/2022 18:47
13C4 PFOA	1.6	1.6	103	50-150		08/22/2022 18:47
13C2 PFDA	1.6	1.7	105	50-150		08/22/2022 18:47
13C4 PFOS	1.5	1.4	92	50-150		08/22/2022 18:47

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.6	1.5	94	25-150		08/22/2022 18:47
13C5 PFPeA	1.6	1.4	89	25-150		08/22/2022 18:47
13C3 PFBS	1.5	1.3	89	25-150		08/22/2022 18:47
13C2 4:2FTS	1.5	3.0	204	25-150	R	08/22/2022 18:47
13C5 PFHxA	1.6	1.4	89	25-150		08/22/2022 18:47
13C4 PFHpA	1.6	1.3	84	25-150		08/22/2022 18:47
13C3 PFHxS	1.5	1.4	93	25-150		08/22/2022 18:47
13C2 6:2FTS	1.5	2.3	156	25-150	R	08/22/2022 18:47
13C8 PFOA	1.6	1.6	99	25-150		08/22/2022 18:47
13C9 PFNA	1.6	1.7	110	25-150		08/22/2022 18:47
13C8 PFOS	1.5	1.2	81	25-150		08/22/2022 18:47
13C2 8:2FTS	1.5	2.9	191	25-150	R	08/22/2022 18:47
13C6 PFDA	1.6	1.5	93	25-150		08/22/2022 18:47
d3-MeFOSAA	1.6	2.0	128	25-150		08/22/2022 18:47
13C8 PFOSA	1.6	1.1	70	25-150		08/22/2022 18:47
d5-EtFOSAA	1.6	1.9	122	25-150		08/22/2022 18:47
13C7 PFUdA	1.6	1.8	112	25-150		08/22/2022 18:47
13C2 PFDoA	1.6	1.8	111	25-150		08/22/2022 18:47
13C2 PFTeDA	1.6	2.3	144	25-150		08/22/2022 18:47
13C3 HFPO-DA	1.6	1.2	77	25-150		08/22/2022 18:47
13C2 PFHxDA	1.6	1.9	120	25-150		08/22/2022 18:47
d7-N-MeFOSE	1.6	0.54	34	10-150		08/22/2022 18:47
d9-N-EtFOSE	1.6	0.70	44	10-150		08/22/2022 18:47
d3-N-MeFOSA	1.6	0.22	14	10-150		08/22/2022 18:47
d5-N-EtFOSA	1.6	0.25	16	10-150		08/22/2022 18:47

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(4-6)	Total Amount Extracted	5.13g
Lab Sample ID	10618249017	Percent Moisture	38.2479%
Lab File ID	B220822A_032	Dry Weight Extracted	3.17g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:55	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.77	92		08/22/2022 18:47
13C4 PFOA	N/A	N/A	7.08	7.07	14		08/22/2022 18:47
13C2 PFDA	N/A	N/A	8.40	8.39	13		08/22/2022 18:47
13C4 PFOS	N/A	N/A	8.87	8.88	18		08/22/2022 18:47

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.27	4.23	19		08/22/2022 18:47
13C5 PFPeA	N/A	N/A	5.19	5.10	14		08/22/2022 18:47
13C3 PFBS	N/A	N/A	6.09	6.02	28		08/22/2022 18:47
13C2 4:2FTS	N/A	N/A	5.60	5.51	19	R	08/22/2022 18:47
13C5 PFHxA	N/A	N/A	5.86	5.78	10		08/22/2022 18:47
13C4 PFHpA	N/A	N/A	6.47	6.42	11		08/22/2022 18:47
13C3 PFHxS	N/A	N/A	7.48	7.47	37		08/22/2022 18:47
13C2 6:2FTS	N/A	N/A	6.76	6.73	21	R	08/22/2022 18:47
13C8 PFOA	N/A	N/A	7.08	7.06	13		08/22/2022 18:47
13C9 PFNA	N/A	N/A	7.72	7.71	13		08/22/2022 18:47
13C8 PFOS	N/A	N/A	8.88	8.86	21		08/22/2022 18:47
13C2 8:2FTS	N/A	N/A	8.01	8.00	31	R	08/22/2022 18:47
13C6 PFDA	N/A	N/A	8.40	8.38	10		08/22/2022 18:47
d3-MeFOSAA	N/A	N/A	8.26	8.25	15		08/22/2022 18:47
13C8 PFOSA	N/A	N/A	10.50	10.42	13		08/22/2022 18:47
d5-EtFOSAA	N/A	N/A	8.55	8.54	10		08/22/2022 18:47
13C7 PFUdA	N/A	N/A	9.06	9.07	14		08/22/2022 18:47
13C2 PFDoA	N/A	N/A	9.73	9.71	89		08/22/2022 18:47
13C2 PFTeDA	N/A	N/A	11.02	11.02	13		08/22/2022 18:47
13C3 HFPO-DA	N/A	N/A	6.11	6.04	11		08/22/2022 18:47
13C2 PFHxDA	N/A	N/A	12.17	12.22	16		08/22/2022 18:47
d7-N-MeFOSE	N/A	N/A	12.48	12.44	59		08/22/2022 18:47
d9-N-EtFOSE	N/A	N/A	12.95	12.88	36		08/22/2022 18:47
d3-N-MeFOSA	N/A	N/A	12.68	12.65	43		08/22/2022 18:47
d5-N-EtFOSA	N/A	N/A	13.10	13.07	48		08/22/2022 18:47

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB3_(4-6)	Total Amount Extracted	5.13g
Lab Sample ID	10618249017	Percent Moisture	38.2479%
Lab File ID	B220822A_032	Dry Weight Extracted	3.17g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 15:55	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.27	4.23	ND		08/22/2022 18:47
PFPeA	N/A	N/A	5.10	5.15	ND		08/22/2022 18:47
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/22/2022 18:47
PFBS	0.31	0.46	6.09	6.02	ND		08/22/2022 18:47
PFHxA	0.00	0.07	0.00	5.81	ND		08/22/2022 18:47
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/22/2022 18:47
PFPeS	0.40	0.43	6.80	6.79	ND		08/22/2022 18:47
PFHpA	0.38	0.32	6.47	6.44	ND		08/22/2022 18:47
DONA	0.00	0.58	0.00	6.67	ND		08/22/2022 18:47
PFHxS	0.36	0.38	7.48	7.49	23	J	08/22/2022 18:47
PFOA	0.44	0.43	7.09	7.08	ND		08/22/2022 18:47
6:2 FTS	0.76	0.80	6.76	6.74	18	J	08/22/2022 18:47
PFHpS	0.00	0.37	0.00	8.20	ND		08/22/2022 18:47
PFNA	0.12	0.13	7.73	7.73	ND		08/22/2022 18:47
PFOSAm	N/A	N/A	10.50	10.44	47		08/22/2022 18:47
PFOS	0.32	0.38	8.89	8.90	87		08/22/2022 18:47
MeFOSA	0.71	0.50	12.71	12.69	ND		08/22/2022 18:47
PFDA	0.57	0.18	8.40	8.40	ND		08/22/2022 18:47
EtFOSAm	0.51	0.52	13.12	13.10	ND		08/22/2022 18:47
8:2 FTS	4.50	0.82	8.02	8.02	ND		08/22/2022 18:47
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/22/2022 18:47
PFNS	0.00	0.50	0.00	9.58	ND		08/22/2022 18:47
PFUnDA	0.00	0.14	0.00	9.05	ND		08/22/2022 18:47
NMeFOSAA	0.82	0.73	8.26	8.26	46		08/22/2022 18:47
NEtFOSAA	0.65	0.67	8.56	8.55	53		08/22/2022 18:47
PFDS	0.42	0.36	10.20	10.19	ND		08/22/2022 18:47
PFDOA	1.60	0.16	9.74	9.72	ND		08/22/2022 18:47
MeFOSE	N/A	N/A	12.51	12.45	39	J	08/22/2022 18:47
EtFOSE	0.00	0.00	12.98	12.92	ND		08/22/2022 18:47
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/22/2022 18:47
PFTTrDA	0.44	0.15	10.19	10.37	36	I	08/22/2022 18:47
PFDoS	0.36	0.46	11.42	11.43	ND		08/22/2022 18:47
PFTDA	0.37	0.23	11.03	11.03	ND		08/22/2022 18:47

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB1_(0-6)
 Lab Sample ID 10618249018
 Lab File ID B220822A_033
 Matrix Solid
 Collected 07/20/2022 16:15
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 13:14

Total Amount Extracted 5.24g
 Percent Moisture 34.0402%
 Dry Weight Extracted 3.46g
 Ical ID 220817B02
 CCal File B220822A_029
 Ending CCal File B220822A_040
 Blank File B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.14	0.041	0.041	1	375-22-4		08/22/2022 19:07
PFPeA	ND	0.14	0.041	0.041	1	2706-90-3		08/22/2022 19:07
HFPO-DA	ND	0.14	0.040	0.040	1	13252-13-6		08/22/2022 19:07
PFBS	ND	0.13	0.038	0.038	1	375-73-5		08/22/2022 19:07
PFHxA	0.052 J	0.14	0.040	0.040	1	307-24-4		08/22/2022 19:07
4:2 FTS	ND	0.14	0.033	0.033	1	757124-72-4		08/22/2022 19:07
PFPeS	ND	0.14	0.035	0.035	1	2706-91-4		08/22/2022 19:07
PFHpA	ND	0.14	0.050	0.050	1	375-85-9		08/22/2022 19:07
DONA	ND	0.14	0.052	0.052	1	919005-14-4		08/22/2022 19:07
PFHxS	0.24	0.13	0.032	0.032	1	355-46-4		08/22/2022 19:07
PFOA	0.12 J	0.14	0.045	0.045	1	335-67-1		08/22/2022 19:07
6:2 FTS	0.065 J	0.14	0.060	0.060	1	27619-97-2		08/22/2022 19:07
PFHpS	ND	0.14	0.040	0.040	1	375-92-8		08/22/2022 19:07
PFNA	ND	0.14	0.045	0.045	1	375-95-1		08/22/2022 19:07
PFOSAm	1.7	0.14	0.043	0.043	1	754-91-6		08/22/2022 19:07
PFOS	5.2	0.13	0.043	0.043	1	1763-23-1		08/22/2022 19:07
MeFOSA	0.048 J	0.14	0.039	0.039	1	31506-32-8		08/22/2022 19:07
PFDA	ND	0.14	0.033	0.033	1	335-76-2		08/22/2022 19:07
EtFOSAm	0.077 J	0.14	0.037	0.037	1	4151-50-2		08/22/2022 19:07
8:2 FTS	0.14 IJ	0.14	0.063	0.063	1	39108-34-4		08/22/2022 19:07
9-CI-PF3ON	ND	0.13	0.036	0.036	1	756426-58-1		08/22/2022 19:07
PFNS	ND	0.14	0.050	0.050	1	68259-12-1		08/22/2022 19:07
PFUnDA	ND	0.14	0.044	0.044	1	2058-94-8		08/22/2022 19:07
NMeFOSAA	0.37	0.14	0.041	0.041	1	2355-31-9		08/22/2022 19:07
NEtFOSAA	3.3	0.14	0.058	0.058	1	2991-50-6		08/22/2022 19:07
PFDS	0.33	0.14	0.041	0.041	1	335-77-3		08/22/2022 19:07
PFDOA	ND	0.14	0.048	0.048	1	307-55-1		08/22/2022 19:07
MeFOSE	0.080 J	0.14	0.044	0.044	1	24448-09-7		08/22/2022 19:07
EtFOSE	0.075 J	0.14	0.047	0.047	1	1691-99-2		08/22/2022 19:07
11-CI-PF3OUdS	ND	0.14	0.037	0.037	1	763051-92-9		08/22/2022 19:07
PFTTrDA	ND	0.14	0.046	0.046	1	72629-94-8		08/22/2022 19:07
PFDoS	ND	0.14	0.038	0.038	1	79780-39-5		08/22/2022 19:07
PFTDA	ND	0.14	0.050	0.050	1	376-06-7		08/22/2022 19:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1_(0-6)	Total Amount Extracted	5.24g
Lab Sample ID	10618249018	Percent Moisture	34.0402%
Lab File ID	B220822A_033	Dry Weight Extracted	3.46g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 16:15	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.4	1.6	108	50-150		08/22/2022 19:07
13C4 PFOA	1.4	1.4	100	50-150		08/22/2022 19:07
13C2 PFDA	1.4	1.6	112	50-150		08/22/2022 19:07
13C4 PFOS	1.4	1.2	85	50-150		08/22/2022 19:07

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.4	1.3	89	25-150		08/22/2022 19:07
13C5 PFPeA	1.4	1.2	85	25-150		08/22/2022 19:07
13C3 PFBS	1.3	1.2	87	25-150		08/22/2022 19:07
13C2 4:2FTS	1.4	2.6	195	25-150	R	08/22/2022 19:07
13C5 PFHxA	1.4	1.3	87	25-150		08/22/2022 19:07
13C4 PFHpA	1.4	1.3	91	25-150		08/22/2022 19:07
13C3 PFHxS	1.4	1.2	87	25-150		08/22/2022 19:07
13C2 6:2FTS	1.4	2.2	157	25-150	R	08/22/2022 19:07
13C8 PFOA	1.4	1.4	96	25-150		08/22/2022 19:07
13C9 PFNA	1.4	1.3	93	25-150		08/22/2022 19:07
13C8 PFOS	1.4	1.1	79	25-150		08/22/2022 19:07
13C2 8:2FTS	1.4	2.4	171	25-150	R	08/22/2022 19:07
13C6 PFDA	1.4	1.3	92	25-150		08/22/2022 19:07
d3-MeFOSAA	1.4	1.7	119	25-150		08/22/2022 19:07
13C8 PFOSA	1.4	1.1	77	25-150		08/22/2022 19:07
d5-EtFOSAA	1.4	1.8	124	25-150		08/22/2022 19:07
13C7 PFUdA	1.4	1.3	89	25-150		08/22/2022 19:07
13C2 PFDoA	1.4	1.6	107	25-150		08/22/2022 19:07
13C2 PFTeDA	1.4	1.6	113	25-150		08/22/2022 19:07
13C3 HFPO-DA	1.4	1.1	77	25-150		08/22/2022 19:07
13C2 PFHxDA	1.4	1.7	120	25-150		08/22/2022 19:07
d7-N-MeFOSE	1.4	0.73	50	10-150		08/22/2022 19:07
d9-N-EtFOSE	1.4	0.71	49	10-150		08/22/2022 19:07
d3-N-MeFOSA	1.4	0.22	15	10-150		08/22/2022 19:07
d5-N-EtFOSA	1.4	0.26	18	10-150		08/22/2022 19:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1_(0-6)	Total Amount Extracted	5.24g
Lab Sample ID	10618249018	Percent Moisture	34.0402%
Lab File ID	B220822A_033	Dry Weight Extracted	3.46g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 16:15	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.77	14		08/22/2022 19:07
13C4 PFOA	N/A	N/A	7.08	7.07	17		08/22/2022 19:07
13C2 PFDA	N/A	N/A	8.39	8.39	11		08/22/2022 19:07
13C4 PFOS	N/A	N/A	8.87	8.88	19		08/22/2022 19:07

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.28	4.23	15		08/22/2022 19:07
13C5 PFPeA	N/A	N/A	5.20	5.20	14		08/22/2022 19:07
13C3 PFBS	N/A	N/A	6.09	6.02	32		08/22/2022 19:07
13C2 4:2FTS	N/A	N/A	5.61	5.51	20	R	08/22/2022 19:07
13C5 PFHxA	N/A	N/A	5.86	5.78	11		08/22/2022 19:07
13C4 PFHpA	N/A	N/A	6.47	6.42	13		08/22/2022 19:07
13C3 PFHxS	N/A	N/A	7.49	7.47	34		08/22/2022 19:07
13C2 6:2FTS	N/A	N/A	6.77	6.73	25	R	08/22/2022 19:07
13C8 PFOA	N/A	N/A	7.09	7.06	19		08/22/2022 19:07
13C9 PFNA	N/A	N/A	7.73	7.71	12		08/22/2022 19:07
13C8 PFOS	N/A	N/A	8.87	8.86	16		08/22/2022 19:07
13C2 8:2FTS	N/A	N/A	8.02	8.00	30	R	08/22/2022 19:07
13C6 PFDA	N/A	N/A	8.39	8.38	12		08/22/2022 19:07
d3-MeFOSAA	N/A	N/A	8.26	8.25	12		08/22/2022 19:07
13C8 PFOSA	N/A	N/A	10.50	10.42	12		08/22/2022 19:07
d5-EtFOSAA	N/A	N/A	8.54	8.54	10		08/22/2022 19:07
13C7 PFUdA	N/A	N/A	9.06	9.07	12		08/22/2022 19:07
13C2 PFDoA	N/A	N/A	9.72	9.71	90		08/22/2022 19:07
13C2 PFTeDA	N/A	N/A	11.01	11.02	12		08/22/2022 19:07
13C3 HFPO-DA	N/A	N/A	6.11	6.04	94		08/22/2022 19:07
13C2 PFHxDA	N/A	N/A	12.17	12.22	17		08/22/2022 19:07
d7-N-MeFOSE	N/A	N/A	12.47	12.44	54		08/22/2022 19:07
d9-N-EtFOSE	N/A	N/A	12.94	12.88	34		08/22/2022 19:07
d3-N-MeFOSA	N/A	N/A	12.68	12.65	35		08/22/2022 19:07
d5-N-EtFOSA	N/A	N/A	13.10	13.07	47		08/22/2022 19:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1_(0-6)	Total Amount Extracted	5.24g
Lab Sample ID	10618249018	Percent Moisture	34.0402%
Lab File ID	B220822A_033	Dry Weight Extracted	3.46g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 16:15	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.28	4.23	ND		08/22/2022 19:07
PFPeA	N/A	N/A	5.11	5.15	ND		08/22/2022 19:07
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/22/2022 19:07
PFBS	0.35	0.46	6.10	6.10	ND		08/22/2022 19:07
PFHxA	0.08	0.07	5.87	5.81	38	J	08/22/2022 19:07
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/22/2022 19:07
PFPeS	0.28	0.43	6.81	6.79	ND		08/22/2022 19:07
PFHpA	0.31	0.32	6.48	6.44	ND		08/22/2022 19:07
DONA	0.00	0.58	0.00	6.67	ND		08/22/2022 19:07
PFHxS	0.34	0.38	7.50	7.49	88		08/22/2022 19:07
PFOA	0.37	0.43	7.09	7.08	83	J	08/22/2022 19:07
6:2 FTS	0.94	0.80	6.77	6.74	28	J	08/22/2022 19:07
PFHpS	0.34	0.37	8.20	8.20	ND		08/22/2022 19:07
PFNA	0.12	0.13	7.74	7.73	ND		08/22/2022 19:07
PFOSAm	N/A	N/A	10.51	10.44	39		08/22/2022 19:07
PFOS	0.36	0.38	8.88	8.90	24		08/22/2022 19:07
MeFOSA	0.31	0.50	12.72	12.69	44	J	08/22/2022 19:07
PFDA	0.20	0.18	8.40	8.40	ND		08/22/2022 19:07
EtFOSAm	0.53	0.52	13.12	13.10	83	J	08/22/2022 19:07
8:2 FTS	1.50	0.82	8.02	8.02	48	IJ	08/22/2022 19:07
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/22/2022 19:07
PFNS	0.32	0.50	9.54	9.58	ND		08/22/2022 19:07
PFUnDA	0.15	0.14	9.06	9.05	ND		08/22/2022 19:07
NMeFOSAA	0.76	0.73	8.27	8.26	44		08/22/2022 19:07
NEtFOSAA	0.67	0.67	8.56	8.55	50		08/22/2022 19:07
PFDS	0.39	0.36	10.20	10.19	12		08/22/2022 19:07
PFDOA	0.18	0.16	9.73	9.72	ND		08/22/2022 19:07
MeFOSE	N/A	N/A	12.51	12.45	62	J	08/22/2022 19:07
EtFOSE	0.00	0.00	12.98	12.92	76	J	08/22/2022 19:07
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/22/2022 19:07
PFTTrDA	0.16	0.15	10.38	10.37	ND		08/22/2022 19:07
PFDoS	0.52	0.46	11.42	11.43	ND		08/22/2022 19:07
PFTDA	0.23	0.23	11.02	11.02	ND		08/22/2022 19:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB1_(6-12)
 Lab Sample ID 10618249019
 Lab File ID B220822A_034
 Matrix Solid
 Collected 07/20/2022 16:20
 Received 07/23/2022 11:35
 Extraction Date 08/03/2022 13:14

Total Amount Extracted 5.16g
 Percent Moisture 33.1569%
 Dry Weight Extracted 3.45g
 Ical ID 220817B02
 CCal File B220822A_029
 Ending CCal File B220822A_040
 Blank File B220812A_009

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.14	0.041	0.041	1	375-22-4		08/22/2022 19:27
PFPeA	ND	0.14	0.041	0.041	1	2706-90-3		08/22/2022 19:27
HFPO-DA	ND	0.14	0.040	0.040	1	13252-13-6		08/22/2022 19:27
PFBS	0.041 J	0.13	0.038	0.038	1	375-73-5		08/22/2022 19:27
PFHxA	0.040 J	0.14	0.040	0.040	1	307-24-4		08/22/2022 19:27
4:2 FTS	ND	0.14	0.033	0.033	1	757124-72-4		08/22/2022 19:27
PFPeS	ND	0.14	0.035	0.035	1	2706-91-4		08/22/2022 19:27
PFHpA	ND	0.14	0.050	0.050	1	375-85-9		08/22/2022 19:27
DONA	ND	0.14	0.053	0.053	1	919005-14-4		08/22/2022 19:27
PFHxS	0.22	0.13	0.032	0.032	1	355-46-4		08/22/2022 19:27
PFOA	0.072 J	0.14	0.045	0.045	1	335-67-1		08/22/2022 19:27
6:2 FTS	ND	0.14	0.060	0.060	1	27619-97-2		08/22/2022 19:27
PFHpS	ND	0.14	0.040	0.040	1	375-92-8		08/22/2022 19:27
PFNA	ND	0.14	0.045	0.045	1	375-95-1		08/22/2022 19:27
PFOSAm	0.77	0.14	0.043	0.043	1	754-91-6		08/22/2022 19:27
PFOS	2.9	0.13	0.043	0.043	1	1763-23-1		08/22/2022 19:27
MeFOSA	ND	0.14	0.039	0.039	1	31506-32-8		08/22/2022 19:27
PFDA	ND	0.14	0.033	0.033	1	335-76-2		08/22/2022 19:27
EtFOSAm	0.042 J	0.14	0.037	0.037	1	4151-50-2		08/22/2022 19:27
8:2 FTS	0.066 IJ	0.14	0.064	0.064	1	39108-34-4		08/22/2022 19:27
9-CI-PF3ON	ND	0.14	0.036	0.036	1	756426-58-1		08/22/2022 19:27
PFNS	ND	0.14	0.050	0.050	1	68259-12-1		08/22/2022 19:27
PFUnDA	ND	0.14	0.044	0.044	1	2058-94-8		08/22/2022 19:27
NMeFOSAA	0.17	0.14	0.041	0.041	1	2355-31-9		08/22/2022 19:27
NEtFOSAA	1.1	0.14	0.058	0.058	1	2991-50-6		08/22/2022 19:27
PFDS	0.17	0.14	0.041	0.041	1	335-77-3		08/22/2022 19:27
PFDOA	ND	0.14	0.048	0.048	1	307-55-1		08/22/2022 19:27
MeFOSE	ND	0.14	0.044	0.044	1	24448-09-7		08/22/2022 19:27
EtFOSE	ND	0.14	0.047	0.047	1	1691-99-2		08/22/2022 19:27
11-CI-PF3OUdS	ND	0.14	0.037	0.037	1	763051-92-9		08/22/2022 19:27
PFTTrDA	ND	0.14	0.046	0.046	1	72629-94-8		08/22/2022 19:27
PFDoS	ND	0.14	0.038	0.038	1	79780-39-5		08/22/2022 19:27
PFTDA	ND	0.14	0.050	0.050	1	376-06-7		08/22/2022 19:27

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1_(6-12)	Total Amount Extracted	5.16g
Lab Sample ID	10618249019	Percent Moisture	33.1569%
Lab File ID	B220822A_034	Dry Weight Extracted	3.45g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 16:20	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.4	1.6	112	50-150		08/22/2022 19:27
13C4 PFOA	1.4	1.5	103	50-150		08/22/2022 19:27
13C2 PFDA	1.4	1.6	113	50-150		08/22/2022 19:27
13C4 PFOS	1.4	1.3	90	50-150		08/22/2022 19:27

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.4	1.3	88	25-150		08/22/2022 19:27
13C5 PFPeA	1.4	1.3	86	25-150		08/22/2022 19:27
13C3 PFBS	1.3	1.1	85	25-150		08/22/2022 19:27
13C2 4:2FTS	1.4	2.4	178	25-150	R	08/22/2022 19:27
13C5 PFHxA	1.4	1.3	87	25-150		08/22/2022 19:27
13C4 PFHpA	1.4	1.2	82	25-150		08/22/2022 19:27
13C3 PFHxS	1.4	1.2	86	25-150		08/22/2022 19:27
13C2 6:2FTS	1.4	1.8	133	25-150		08/22/2022 19:27
13C8 PFOA	1.4	1.3	93	25-150		08/22/2022 19:27
13C9 PFNA	1.4	1.4	97	25-150		08/22/2022 19:27
13C8 PFOS	1.4	1.2	83	25-150		08/22/2022 19:27
13C2 8:2FTS	1.4	2.0	147	25-150		08/22/2022 19:27
13C6 PFDA	1.4	1.6	110	25-150		08/22/2022 19:27
d3-MeFOSAA	1.4	1.7	114	25-150		08/22/2022 19:27
13C8 PFOSA	1.4	0.77	53	25-150		08/22/2022 19:27
d5-EtFOSAA	1.4	1.7	114	25-150		08/22/2022 19:27
13C7 PFUdA	1.4	1.6	114	25-150		08/22/2022 19:27
13C2 PFDoA	1.4	1.5	102	25-150		08/22/2022 19:27
13C2 PFTeDA	1.4	1.9	133	25-150		08/22/2022 19:27
13C3 HFPO-DA	1.4	1.2	80	25-150		08/22/2022 19:27
13C2 PFHxDA	1.4	1.9	129	25-150		08/22/2022 19:27
d7-N-MeFOSE	1.4	0.48	33	10-150		08/22/2022 19:27
d9-N-EtFOSE	1.4	0.50	35	10-150		08/22/2022 19:27
d3-N-MeFOSA	1.4	0.12	8	10-150	R	08/22/2022 19:27
d5-N-EtFOSA	1.4	0.17	12	10-150		08/22/2022 19:27

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1_(6-12)	Total Amount Extracted	5.16g
Lab Sample ID	10618249019	Percent Moisture	33.1569%
Lab File ID	B220822A_034	Dry Weight Extracted	3.45g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 16:20	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.77	13		08/22/2022 19:27
13C4 PFOA	N/A	N/A	7.08	7.07	15		08/22/2022 19:27
13C2 PFDA	N/A	N/A	8.39	8.39	15		08/22/2022 19:27
13C4 PFOS	N/A	N/A	8.88	8.88	21		08/22/2022 19:27

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.28	4.23	19		08/22/2022 19:27
13C5 PFPeA	N/A	N/A	5.19	5.10	15		08/22/2022 19:27
13C3 PFBS	N/A	N/A	6.09	6.02	27		08/22/2022 19:27
13C2 4:2FTS	N/A	N/A	5.60	5.51	28	R	08/22/2022 19:27
13C5 PFHxA	N/A	N/A	5.86	5.78	10		08/22/2022 19:27
13C4 PFHpA	N/A	N/A	6.46	6.42	13		08/22/2022 19:27
13C3 PFHxS	N/A	N/A	7.48	7.47	38		08/22/2022 19:27
13C2 6:2FTS	N/A	N/A	6.75	6.73	21		08/22/2022 19:27
13C8 PFOA	N/A	N/A	7.08	7.06	17		08/22/2022 19:27
13C9 PFNA	N/A	N/A	7.72	7.71	14		08/22/2022 19:27
13C8 PFOS	N/A	N/A	8.88	8.86	21		08/22/2022 19:27
13C2 8:2FTS	N/A	N/A	8.01	8.00	30		08/22/2022 19:27
13C6 PFDA	N/A	N/A	8.40	8.38	12		08/22/2022 19:27
d3-MeFOSAA	N/A	N/A	8.26	8.25	14		08/22/2022 19:27
13C8 PFOSA	N/A	N/A	10.52	10.42	13		08/22/2022 19:27
d5-EtFOSAA	N/A	N/A	8.55	8.54	10		08/22/2022 19:27
13C7 PFUdA	N/A	N/A	9.07	9.07	17		08/22/2022 19:27
13C2 PFDoA	N/A	N/A	9.73	9.71	10		08/22/2022 19:27
13C2 PFTeDA	N/A	N/A	11.03	11.02	13		08/22/2022 19:27
13C3 HFPO-DA	N/A	N/A	6.11	6.04	99		08/22/2022 19:27
13C2 PFHxDA	N/A	N/A	12.18	12.22	22		08/22/2022 19:27
d7-N-MeFOSE	N/A	N/A	12.48	12.44	73		08/22/2022 19:27
d9-N-EtFOSE	N/A	N/A	12.95	12.88	27		08/22/2022 19:27
d3-N-MeFOSA	N/A	N/A	12.69	12.65	31	R	08/22/2022 19:27
d5-N-EtFOSA	N/A	N/A	13.11	13.07	44		08/22/2022 19:27

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1_(6-12)	Total Amount Extracted	5.16g
Lab Sample ID	10618249019	Percent Moisture	33.1569%
Lab File ID	B220822A_034	Dry Weight Extracted	3.45g
Matrix	Solid	Ical ID	220817B02
Collected	07/20/2022 16:20	CCal File	B220822A_029
Received	07/23/2022 11:35	Ending CCal File	B220822A_040
Extraction Date	08/03/2022 13:14	Blank File	B220812A_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.28	4.23	ND		08/22/2022 19:27
PFPeA	N/A	N/A	5.10	5.15	ND		08/22/2022 19:27
HFPO-DA	0.00	0.26	0.00	6.07	ND		08/22/2022 19:27
PFBS	0.38	0.46	6.10	6.10	26	J	08/22/2022 19:27
PFHxA	0.07	0.07	5.86	5.81	43	J	08/22/2022 19:27
4:2 FTS	0.00	0.83	0.00	5.54	ND		08/22/2022 19:27
PFPeS	0.39	0.43	6.80	6.79	ND		08/22/2022 19:27
PFHpA	0.28	0.32	6.47	6.44	ND		08/22/2022 19:27
DONA	0.00	0.58	0.00	6.67	ND		08/22/2022 19:27
PFHxS	0.25	0.38	7.49	7.49	68		08/22/2022 19:27
PFOA	0.40	0.43	7.08	7.08	80	J	08/22/2022 19:27
6:2 FTS	0.88	0.80	6.76	6.74	ND		08/22/2022 19:27
PFHpS	0.35	0.37	8.19	8.20	ND		08/22/2022 19:27
PFNA	0.11	0.13	7.73	7.73	ND		08/22/2022 19:27
PFOSAm	N/A	N/A	10.53	10.44	44		08/22/2022 19:27
PFOS	0.37	0.38	8.89	8.90	21		08/22/2022 19:27
MeFOSA	0.00	0.50	0.00	12.69	ND		08/22/2022 19:27
PFDA	0.14	0.18	8.41	8.40	ND		08/22/2022 19:27
EtFOSAm	0.47	0.52	13.13	13.10	40	J	08/22/2022 19:27
8:2 FTS	1.90	0.82	8.02	8.02	82	IJ	08/22/2022 19:27
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/22/2022 19:27
PFNS	0.50	0.50	9.57	9.58	ND		08/22/2022 19:27
PFUnDA	0.13	0.14	9.08	9.05	ND		08/22/2022 19:27
NMeFOSAA	0.81	0.73	8.27	8.26	65		08/22/2022 19:27
NEtFOSAA	0.70	0.67	8.56	8.55	56		08/22/2022 19:27
PFDS	0.37	0.36	10.21	10.19	10		08/22/2022 19:27
PFDOA	0.17	0.16	9.74	9.72	ND		08/22/2022 19:27
MeFOSE	N/A	N/A	12.52	12.45	ND		08/22/2022 19:27
EtFOSE	0.00	0.00	12.99	12.92	ND		08/22/2022 19:27
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/22/2022 19:27
PFTTrDA	0.19	0.15	10.40	10.37	ND		08/22/2022 19:27
PFDoS	0.53	0.46	11.43	11.43	ND		08/22/2022 19:27
PFTDA	0.35	0.23	11.03	11.02	ND		08/22/2022 19:27

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKSS
 Lab Sample ID BLANK-100249
 Lab File ID B220811C_044
 Matrix Soil
 Collected 07/26/2022 09:48
 Received 07/26/2022 09:48
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.12g
 Ical ID 220810B02
 CCal File B220811C_035
 Ending CCal File B220811C_045
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.028	0.028	1	375-22-4		08/12/2022 12:30
PFPeA	ND	0.098	0.028	0.028	1	2706-90-3		08/12/2022 12:30
HFPO-DA	ND	0.098	0.027	0.027	1	13252-13-6		08/12/2022 12:30
PFBS	ND	0.087	0.026	0.026	1	375-73-5		08/12/2022 12:30
PFHxA	ND	0.098	0.027	0.027	1	307-24-4		08/12/2022 12:30
4:2 FTS	ND	0.091	0.023	0.023	1	757124-72-4		08/12/2022 12:30
PFPeS	ND	0.092	0.023	0.023	1	2706-91-4		08/12/2022 12:30
PFHpA	ND	0.098	0.034	0.034	1	375-85-9		08/12/2022 12:30
DONA	ND	0.092	0.035	0.035	1	919005-14-4		08/12/2022 12:30
PFHxS	ND	0.089	0.021	0.021	1	355-46-4		08/12/2022 12:30
PFOA	ND	0.098	0.030	0.030	1	335-67-1		08/12/2022 12:30
6:2 FTS	ND	0.093	0.040	0.040	1	27619-97-2		08/12/2022 12:30
PFHpS	ND	0.093	0.027	0.027	1	375-92-8		08/12/2022 12:30
PFNA	ND	0.098	0.030	0.030	1	375-95-1		08/12/2022 12:30
PFOSAm	ND	0.098	0.029	0.029	1	754-91-6		08/12/2022 12:30
PFOS	ND	0.090	0.029	0.029	1	1763-23-1		08/12/2022 12:30
MeFOSA	ND	0.098	0.027	0.027	1	31506-32-8		08/12/2022 12:30
PFDA	ND	0.098	0.022	0.022	1	335-76-2		08/12/2022 12:30
EtFOSAm	ND	0.098	0.025	0.025	1	4151-50-2		08/12/2022 12:30
8:2 FTS	ND	0.094	0.043	0.043	1	39108-34-4		08/12/2022 12:30
9-CI-PF3ON	ND	0.091	0.025	0.025	1	756426-58-1		08/12/2022 12:30
PFNS	ND	0.094	0.034	0.034	1	68259-12-1		08/12/2022 12:30
PFUnDA	ND	0.098	0.030	0.030	1	2058-94-8		08/12/2022 12:30
NMeFOSAA	ND	0.098	0.027	0.027	1	2355-31-9		08/12/2022 12:30
NEtFOSAA	ND	0.098	0.039	0.039	1	2991-50-6		08/12/2022 12:30
PFDS	ND	0.094	0.028	0.028	1	335-77-3		08/12/2022 12:30
PFDOA	ND	0.098	0.032	0.032	1	307-55-1		08/12/2022 12:30
MeFOSE	ND	0.098	0.030	0.030	1	24448-09-7		08/12/2022 12:30
EtFOSE	ND	0.098	0.031	0.031	1	1691-99-2		08/12/2022 12:30
11-CI-PF3OUdS	ND	0.092	0.025	0.025	1	763051-92-9		08/12/2022 12:30
PFTTrDA	ND	0.098	0.031	0.031	1	72629-94-8		08/12/2022 12:30
PFDoS	ND	0.095	0.026	0.026	1	79780-39-5		08/12/2022 12:30
PFTDA	ND	0.098	0.034	0.034	1	376-06-7		08/12/2022 12:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKSS
 Lab Sample ID BLANK-100249
 Lab File ID B220811C_044
 Matrix Soil
 Collected 07/26/2022 09:48
 Received 07/26/2022 09:48
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.12g
 Ical ID 220810B02
 CCal File B220811C_035
 Ending CCal File B220811C_045
 Blank File

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	1.2	126	50-150		08/12/2022 12:30
13C4 PFOA	0.98	1.2	126	50-150		08/12/2022 12:30
13C2 PFDA	0.98	1.2	124	50-150		08/12/2022 12:30
13C4 PFOS	0.94	1.2	125	50-150		08/12/2022 12:30

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.95	97	50-150		08/12/2022 12:30
13C5 PFPeA	0.98	0.93	96	50-150		08/12/2022 12:30
13C3 PFBS	0.91	0.92	101	50-150		08/12/2022 12:30
13C2 4:2FTS	0.91	0.91	99	50-150		08/12/2022 12:30
13C5 PFHxA	0.98	1.1	108	50-150		08/12/2022 12:30
13C4 PFHpA	0.98	0.98	101	50-150		08/12/2022 12:30
13C3 PFHxS	0.92	0.93	100	50-150		08/12/2022 12:30
13C2 6:2FTS	0.93	0.83	90	50-150		08/12/2022 12:30
13C8 PFOA	0.98	0.99	101	50-150		08/12/2022 12:30
13C9 PFNA	0.98	0.89	91	50-150		08/12/2022 12:30
13C8 PFOS	0.94	0.91	97	50-150		08/12/2022 12:30
13C2 8:2FTS	0.94	0.97	104	50-150		08/12/2022 12:30
13C6 PFDA	0.98	0.97	100	50-150		08/12/2022 12:30
d3-MeFOSAA	0.98	0.87	89	50-150		08/12/2022 12:30
13C8 PFOSA	0.98	0.96	98	50-150		08/12/2022 12:30
d5-EtFOSAA	0.98	0.97	99	50-150		08/12/2022 12:30
13C7 PFUdA	0.98	0.99	101	50-150		08/12/2022 12:30
13C2 PFDoA	0.98	0.91	93	50-150		08/12/2022 12:30
13C2 PFTeDA	0.98	1.1	109	50-150		08/12/2022 12:30
13C3 HFPO-DA	0.98	0.85	87	50-150		08/12/2022 12:30
13C2 PFHxDA	0.98	0.90	92	50-150		08/12/2022 12:30
d7-N-MeFOSE	0.98	0.95	98	20-150		08/12/2022 12:30
d9-N-EtFOSE	0.98	1.1	108	20-150		08/12/2022 12:30
d3-N-MeFOSA	0.98	0.91	93	20-150		08/12/2022 12:30
d5-N-EtFOSA	0.98	0.93	96	20-150		08/12/2022 12:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKSS
 Lab Sample ID BLANK-100249
 Lab File ID B220811C_044
 Matrix Soil
 Collected 07/26/2022 09:48
 Received 07/26/2022 09:48
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.12g
 Ical ID 220810B02
 CCal File B220811C_035
 Ending CCal File B220811C_045
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.80	5.77	24		08/12/2022 12:30
13C4 PFOA	N/A	N/A	7.05	7.07	26		08/12/2022 12:30
13C2 PFDA	N/A	N/A	8.41	8.39	28		08/12/2022 12:30
13C4 PFOS	N/A	N/A	8.89	8.88	18		08/12/2022 12:30

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.21	4.23	19		08/12/2022 12:30
13C5 PFPeA	N/A	N/A	5.13	5.10	27		08/12/2022 12:30
13C3 PFBS	N/A	N/A	6.03	6.02	29		08/12/2022 12:30
13C2 4:2FTS	N/A	N/A	5.54	5.51	97		08/12/2022 12:30
13C5 PFHxA	N/A	N/A	5.80	5.78	19		08/12/2022 12:30
13C4 PFHpA	N/A	N/A	6.42	6.42	19		08/12/2022 12:30
13C3 PFHxS	N/A	N/A	7.46	7.47	24		08/12/2022 12:30
13C2 6:2FTS	N/A	N/A	6.73	6.73	21		08/12/2022 12:30
13C8 PFOA	N/A	N/A	7.05	7.06	25		08/12/2022 12:30
13C9 PFNA	N/A	N/A	7.72	7.71	28		08/12/2022 12:30
13C8 PFOS	N/A	N/A	8.89	8.86	22		08/12/2022 12:30
13C2 8:2FTS	N/A	N/A	8.02	8.00	22		08/12/2022 12:30
13C6 PFDA	N/A	N/A	8.41	8.38	19		08/12/2022 12:30
d3-MeFOSAA	N/A	N/A	8.27	8.25	11		08/12/2022 12:30
13C8 PFOSA	N/A	N/A	10.53	10.42	14		08/12/2022 12:30
d5-EtFOSAA	N/A	N/A	8.56	8.54	16		08/12/2022 12:30
13C7 PFUdA	N/A	N/A	9.08	9.07	26		08/12/2022 12:30
13C2 PFDoA	N/A	N/A	9.75	9.71	14		08/12/2022 12:30
13C2 PFTeDA	N/A	N/A	11.05	11.02	21		08/12/2022 12:30
13C3 HFPO-DA	N/A	N/A	6.06	6.04	17		08/12/2022 12:30
13C2 PFHxDA	N/A	N/A	12.21	12.22	15		08/12/2022 12:30
d7-N-MeFOSE	N/A	N/A	12.43	12.44	41		08/12/2022 12:30
d9-N-EtFOSE	N/A	N/A	12.91	12.88	40		08/12/2022 12:30
d3-N-MeFOSA	N/A	N/A	12.64	12.65	11		08/12/2022 12:30
d5-N-EtFOSA	N/A	N/A	13.06	13.07	77		08/12/2022 12:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKSS
 Lab Sample ID BLANK-100249
 Lab File ID B220811C_044
 Matrix Soil
 Collected 07/26/2022 09:48
 Received 07/26/2022 09:48
 Extraction Date 08/01/2022 12:25

Total Amount Extracted 5.12g
 Ical ID 220810B02
 CCal File B220811C_035
 Ending CCal File B220811C_045
 Blank File

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.39	4.23	ND		08/12/2022 12:30
PFPeA	N/A	N/A	5.14	5.15	ND		08/12/2022 12:30
HFPO-DA	0.00	0.28	0.00	6.07	ND		08/12/2022 12:30
PFBS	0.65	0.45	6.04	6.02	ND		08/12/2022 12:30
PFHxA	0.21	0.08	5.81	5.81	ND		08/12/2022 12:30
4:2 FTS	0.00	0.81	0.00	5.54	ND		08/12/2022 12:30
PFPeS	0.00	0.45	0.00	6.79	ND		08/12/2022 12:30
PFHpA	0.00	0.31	0.00	6.44	ND		08/12/2022 12:30
DONA	0.00	0.55	0.00	6.67	ND		08/12/2022 12:30
PFHxS	1.70	0.36	7.47	7.49	ND		08/12/2022 12:30
PFOA	0.80	0.32	7.06	7.08	ND		08/12/2022 12:30
6:2 FTS	1.00	0.81	6.73	6.74	ND		08/12/2022 12:30
PFHpS	0.00	0.41	0.00	8.20	ND		08/12/2022 12:30
PFNA	0.00	0.13	0.00	7.73	ND		08/12/2022 12:30
PFOSAm	N/A	N/A	0.00	10.44	ND		08/12/2022 12:30
PFOS	0.00	0.40	0.00	8.90	ND		08/12/2022 12:30
MeFOSA	0.00	0.56	0.00	12.69	ND		08/12/2022 12:30
PFDA	0.00	0.19	0.00	8.40	ND		08/12/2022 12:30
EtFOSAm	0.00	0.52	0.00	13.10	ND		08/12/2022 12:30
8:2 FTS	0.00	0.85	0.00	8.02	ND		08/12/2022 12:30
9-CI-PF3ON	0.00	0.05	0.00	9.39	ND		08/12/2022 12:30
PFNS	0.00	0.44	0.00	9.58	ND		08/12/2022 12:30
PFUnDA	0.00	0.15	0.00	9.05	ND		08/12/2022 12:30
NMeFOSAA	0.57	0.81	8.52	8.26	ND		08/12/2022 12:30
NEtFOSAA	0.00	0.62	0.00	8.55	ND		08/12/2022 12:30
PFDS	0.00	0.37	0.00	10.19	ND		08/12/2022 12:30
PFDOA	0.00	0.17	0.00	9.72	ND		08/12/2022 12:30
MeFOSE	N/A	N/A	0.00	12.45	ND		08/12/2022 12:30
EtFOSE	0.00	0.00	0.00	12.92	ND		08/12/2022 12:30
11-CI-PF3OUdS	0.00	0.03	0.00	10.66	ND		08/12/2022 12:30
PFTTrDA	0.00	0.15	0.00	10.37	ND		08/12/2022 12:30
PFDoS	0.00	0.48	0.00	11.43	ND		08/12/2022 12:30
PFTDA	0.00	0.25	0.00	11.02	ND		08/12/2022 12:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKTP
 Lab Sample ID BLANK-100322
 Lab File ID B220812A_009
 Matrix Soil
 Collected 07/28/2022 11:16
 Received 07/28/2022 11:16
 Extraction Date 08/03/2022 13:14

Total Amount Extracted 5.00g
 Ical ID 220810B02
 CCal File B220812A_002
 Ending CCal File B220812A_014
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.028	0.028	1	375-22-4		08/12/2022 16:30
PFPeA	ND	0.10	0.029	0.029	1	2706-90-3		08/12/2022 16:30
HFPO-DA	ND	0.10	0.028	0.028	1	13252-13-6		08/12/2022 16:30
PFBS	ND	0.088	0.026	0.026	1	375-73-5		08/12/2022 16:30
PFHxA	ND	0.10	0.028	0.028	1	307-24-4		08/12/2022 16:30
4:2 FTS	ND	0.094	0.023	0.023	1	757124-72-4		08/12/2022 16:30
PFPeS	ND	0.094	0.024	0.024	1	2706-91-4		08/12/2022 16:30
PFHpA	ND	0.10	0.035	0.035	1	375-85-9		08/12/2022 16:30
DONA	ND	0.095	0.036	0.036	1	919005-14-4		08/12/2022 16:30
PFHxS	ND	0.091	0.022	0.022	1	355-46-4		08/12/2022 16:30
PFOA	ND	0.10	0.031	0.031	1	335-67-1		08/12/2022 16:30
6:2 FTS	ND	0.095	0.041	0.041	1	27619-97-2		08/12/2022 16:30
PFHpS	ND	0.095	0.028	0.028	1	375-92-8		08/12/2022 16:30
PFNA	ND	0.10	0.031	0.031	1	375-95-1		08/12/2022 16:30
PFOSAm	ND	0.10	0.029	0.029	1	754-91-6		08/12/2022 16:30
PFOS	ND	0.092	0.030	0.030	1	1763-23-1		08/12/2022 16:30
MeFOSA	ND	0.10	0.027	0.027	1	31506-32-8		08/12/2022 16:30
PFDA	ND	0.10	0.023	0.023	1	335-76-2		08/12/2022 16:30
EtFOSAm	ND	0.10	0.026	0.026	1	4151-50-2		08/12/2022 16:30
8:2 FTS	ND	0.096	0.044	0.044	1	39108-34-4		08/12/2022 16:30
9-CI-PF3ON	ND	0.093	0.025	0.025	1	756426-58-1		08/12/2022 16:30
PFNS	ND	0.096	0.035	0.035	1	68259-12-1		08/12/2022 16:30
PFUnDA	ND	0.10	0.030	0.030	1	2058-94-8		08/12/2022 16:30
NMeFOSAA	ND	0.10	0.028	0.028	1	2355-31-9		08/12/2022 16:30
NEtFOSAA	ND	0.10	0.040	0.040	1	2991-50-6		08/12/2022 16:30
PFDS	ND	0.096	0.028	0.028	1	335-77-3		08/12/2022 16:30
PFDOA	ND	0.10	0.033	0.033	1	307-55-1		08/12/2022 16:30
MeFOSE	ND	0.10	0.030	0.030	1	24448-09-7		08/12/2022 16:30
EtFOSE	ND	0.10	0.032	0.032	1	1691-99-2		08/12/2022 16:30
11-CI-PF3OUdS	ND	0.094	0.025	0.025	1	763051-92-9		08/12/2022 16:30
PFTTrDA	ND	0.10	0.032	0.032	1	72629-94-8		08/12/2022 16:30
PFDoS	ND	0.097	0.026	0.026	1	79780-39-5		08/12/2022 16:30
PFTDA	ND	0.10	0.034	0.034	1	376-06-7		08/12/2022 16:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKTP
 Lab Sample ID BLANK-100322
 Lab File ID B220812A_009
 Matrix Soil
 Collected 07/28/2022 11:16
 Received 07/28/2022 11:16
 Extraction Date 08/03/2022 13:14

Total Amount Extracted 5.00g
 Ical ID 220810B02
 CCal File B220812A_002
 Ending CCal File B220812A_014
 Blank File

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.1	111	50-150		08/12/2022 16:30
13C4 PFOA	1.0	0.98	98	50-150		08/12/2022 16:30
13C2 PFDA	1.0	0.94	94	50-150		08/12/2022 16:30
13C4 PFOS	0.96	0.92	97	50-150		08/12/2022 16:30

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.96	96	50-150		08/12/2022 16:30
13C5 PFPeA	1.0	0.98	98	50-150		08/12/2022 16:30
13C3 PFBS	0.93	0.89	96	50-150		08/12/2022 16:30
13C2 4:2FTS	0.94	0.91	97	50-150		08/12/2022 16:30
13C5 PFHxA	1.0	1.1	110	50-150		08/12/2022 16:30
13C4 PFHpA	1.0	1.0	102	50-150		08/12/2022 16:30
13C3 PFHxS	0.95	0.96	102	50-150		08/12/2022 16:30
13C2 6:2FTS	0.95	1.0	106	50-150		08/12/2022 16:30
13C8 PFOA	1.0	0.89	89	50-150		08/12/2022 16:30
13C9 PFNA	1.0	1.1	108	50-150		08/12/2022 16:30
13C8 PFOS	0.96	0.94	99	50-150		08/12/2022 16:30
13C2 8:2FTS	0.96	0.88	92	50-150		08/12/2022 16:30
13C6 PFDA	1.0	0.90	90	50-150		08/12/2022 16:30
d3-MeFOSAA	1.0	1.00	100	50-150		08/12/2022 16:30
13C8 PFOSA	1.0	0.90	90	50-150		08/12/2022 16:30
d5-EtFOSAA	1.0	1.0	104	50-150		08/12/2022 16:30
13C7 PFUdA	1.0	0.95	95	50-150		08/12/2022 16:30
13C2 PFDoA	1.0	1.1	112	50-150		08/12/2022 16:30
13C2 PFTeDA	1.0	0.91	91	50-150		08/12/2022 16:30
13C3 HFPO-DA	1.0	0.93	93	50-150		08/12/2022 16:30
13C2 PFHxDA	1.0	0.99	99	50-150		08/12/2022 16:30
d7-N-MeFOSE	1.0	1.0	103	20-150		08/12/2022 16:30
d9-N-EtFOSE	1.0	1.1	107	20-150		08/12/2022 16:30
d3-N-MeFOSA	1.0	0.99	99	20-150		08/12/2022 16:30
d5-N-EtFOSA	1.0	1.0	100	20-150		08/12/2022 16:30

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKTP
 Lab Sample ID BLANK-100322
 Lab File ID B220812A_009
 Matrix Soil
 Collected 07/28/2022 11:16
 Received 07/28/2022 11:16
 Extraction Date 08/03/2022 13:14

Total Amount Extracted 5.00g
 Ical ID 220810B02
 CCal File B220812A_002
 Ending CCal File B220812A_014
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.77	22		08/12/2022 16:30
13C4 PFOA	N/A	N/A	7.08	7.07	23		08/12/2022 16:30
13C2 PFDA	N/A	N/A	8.39	8.39	29		08/12/2022 16:30
13C4 PFOS	N/A	N/A	8.87	8.88	23		08/12/2022 16:30

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.22	4.23	22		08/12/2022 16:30
13C5 PFPeA	N/A	N/A	5.14	5.10	25		08/12/2022 16:30
13C3 PFBS	N/A	N/A	6.06	6.12	27		08/12/2022 16:30
13C2 4:2FTS	N/A	N/A	5.56	5.63	11		08/12/2022 16:30
13C5 PFHxA	N/A	N/A	5.83	5.78	22		08/12/2022 16:30
13C4 PFHpA	N/A	N/A	6.46	6.42	19		08/12/2022 16:30
13C3 PFHxS	N/A	N/A	7.47	7.57	27		08/12/2022 16:30
13C2 6:2FTS	N/A	N/A	6.76	6.85	20		08/12/2022 16:30
13C8 PFOA	N/A	N/A	7.08	7.06	31		08/12/2022 16:30
13C9 PFNA	N/A	N/A	7.72	7.83	21		08/12/2022 16:30
13C8 PFOS	N/A	N/A	8.87	8.86	18		08/12/2022 16:30
13C2 8:2FTS	N/A	N/A	8.01	8.00	54		08/12/2022 16:30
13C6 PFDA	N/A	N/A	8.39	8.38	15		08/12/2022 16:30
d3-MeFOSAA	N/A	N/A	8.26	8.25	45		08/12/2022 16:30
13C8 PFOSA	N/A	N/A	10.53	10.42	15		08/12/2022 16:30
d5-EtFOSAA	N/A	N/A	8.55	8.54	13		08/12/2022 16:30
13C7 PFUdA	N/A	N/A	9.06	9.07	28		08/12/2022 16:30
13C2 PFDoA	N/A	N/A	9.73	9.71	19		08/12/2022 16:30
13C2 PFTeDA	N/A	N/A	11.03	11.02	19		08/12/2022 16:30
13C3 HFPO-DA	N/A	N/A	6.09	6.04	12		08/12/2022 16:30
13C2 PFHxDA	N/A	N/A	12.20	12.22	17		08/12/2022 16:30
d7-N-MeFOSE	N/A	N/A	12.42	12.44	62		08/12/2022 16:30
d9-N-EtFOSE	N/A	N/A	12.89	12.96	39		08/12/2022 16:30
d3-N-MeFOSA	N/A	N/A	12.63	12.65	10		08/12/2022 16:30
d5-N-EtFOSA	N/A	N/A	13.05	13.07	76		08/12/2022 16:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKTP
 Lab Sample ID BLANK-100322
 Lab File ID B220812A_009
 Matrix Soil
 Collected 07/28/2022 11:16
 Received 07/28/2022 11:16
 Extraction Date 08/03/2022 13:14

Total Amount Extracted 5.00g
 Ical ID 220810B02
 CCal File B220812A_002
 Ending CCal File B220812A_014
 Blank File

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.43	ND		08/12/2022 16:30
PFPeA	N/A	N/A	0.00	5.15	ND		08/12/2022 16:30
HFPO-DA	0.00	0.29	0.00	6.07	ND		08/12/2022 16:30
PFBS	0.00	0.42	0.00	6.02	ND		08/12/2022 16:30
PFHxA	0.00	0.09	0.00	5.81	ND		08/12/2022 16:30
4:2 FTS	0.00	0.78	0.00	5.54	ND		08/12/2022 16:30
PFPeS	0.00	0.41	0.00	6.79	ND		08/12/2022 16:30
PFHpA	0.00	0.30	0.00	6.44	ND		08/12/2022 16:30
DONA	0.00	0.63	0.00	6.67	ND		08/12/2022 16:30
PFHxS	0.00	0.37	0.00	7.49	ND		08/12/2022 16:30
PFOA	0.35	0.32	7.08	7.08	ND		08/12/2022 16:30
6:2 FTS	0.84	0.89	6.76	6.74	ND		08/12/2022 16:30
PFHpS	0.00	0.44	0.00	8.20	ND		08/12/2022 16:30
PFNA	0.11	0.13	7.73	7.73	ND		08/12/2022 16:30
PFOSAm	N/A	N/A	0.00	10.47	ND		08/12/2022 16:30
PFOS	0.00	0.44	0.00	8.90	ND		08/12/2022 16:30
MeFOSA	0.00	0.58	0.00	12.69	ND		08/12/2022 16:30
PFDA	0.00	0.19	0.00	8.40	ND		08/12/2022 16:30
EtFOSAm	0.00	0.55	0.00	13.10	ND		08/12/2022 16:30
8:2 FTS	0.00	0.87	0.00	8.02	ND		08/12/2022 16:30
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/12/2022 16:30
PFNS	0.00	0.47	0.00	9.58	ND		08/12/2022 16:30
PFUnDA	0.00	0.14	0.00	9.05	ND		08/12/2022 16:30
NMeFOSAA	0.00	0.84	0.00	8.26	ND		08/12/2022 16:30
NEtFOSAA	0.00	0.60	0.00	8.55	ND		08/12/2022 16:30
PFDS	0.00	0.32	0.00	10.19	ND		08/12/2022 16:30
PFDOA	0.00	0.17	0.00	9.72	ND		08/12/2022 16:30
MeFOSE	N/A	N/A	0.00	12.45	ND		08/12/2022 16:30
EtFOSE	0.00	0.00	0.00	12.92	ND		08/12/2022 16:30
11-CI-PF3OUdS	0.00	0.02	0.00	10.66	ND		08/12/2022 16:30
PFTTrDA	0.00	0.17	0.00	10.37	ND		08/12/2022 16:30
PFDoS	0.00	0.47	0.00	11.43	ND		08/12/2022 16:30
PFTDA	0.00	0.24	0.00	11.02	ND		08/12/2022 16:30

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKUA
 Lab Sample ID BLANK-100350
 Lab File ID B220816B_009
 Matrix Water
 Collected 08/01/2022 10:36
 Received 08/01/2022 10:36
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 252mL
 Ical ID 220816A02
 CCal File B220816B_001
 Ending CCal File B220816B_012
 Blank File B220816B_009

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.44	0.44	1	375-22-4		08/16/2022 22:40
PFPeA	ND	2.0	0.43	0.43	1	2706-90-3		08/16/2022 22:40
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6		08/16/2022 22:40
PFBS	ND	1.8	0.47	0.47	1	375-73-5		08/16/2022 22:40
PFHxA	ND	2.0	0.43	0.43	1	307-24-4		08/16/2022 22:40
4:2 FTS	ND	1.9	0.55	0.55	1	757124-72-4		08/16/2022 22:40
PFPeS	ND	1.9	0.47	0.47	1	2706-91-4		08/16/2022 22:40
PFHpA	ND	2.0	0.54	0.54	1	375-85-9		08/16/2022 22:40
DONA	ND	1.9	0.51	0.51	1	919005-14-4		08/16/2022 22:40
PFHxS	ND	1.8	0.50	0.50	1	355-46-4		08/16/2022 22:40
PFOA	ND	2.0	0.58	0.58	1	335-67-1		08/16/2022 22:40
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2		08/16/2022 22:40
PFHpS	ND	1.9	0.41	0.41	1	375-92-8		08/16/2022 22:40
PFNA	ND	2.0	0.73	0.73	1	375-95-1		08/16/2022 22:40
PFOSAm	ND	2.0	0.81	0.81	1	754-91-6		08/16/2022 22:40
PFOS	ND	1.8	0.54	0.54	1	1763-23-1		08/16/2022 22:40
MeFOSA	ND	2.0	0.51	0.51	1	31506-32-8		08/16/2022 22:40
PFDA	ND	2.0	0.56	0.56	1	335-76-2		08/16/2022 22:40
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2		08/16/2022 22:40
8:2 FTS	ND	1.9	0.65	0.65	1	39108-34-4		08/16/2022 22:40
9-CI-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1		08/16/2022 22:40
PFNS	ND	1.9	0.44	0.44	1	68259-12-1		08/16/2022 22:40
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8		08/16/2022 22:40
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9		08/16/2022 22:40
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6		08/16/2022 22:40
PFDS	ND	1.9	0.45	0.45	1	335-77-3		08/16/2022 22:40
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		08/16/2022 22:40
MeFOSE	ND	2.0	0.33	0.33	1	24448-09-7		08/16/2022 22:40
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2		08/16/2022 22:40
11-CI-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9		08/16/2022 22:40
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		08/16/2022 22:40
PFDoS	ND	1.9	0.46	0.46	1	79780-39-5		08/16/2022 22:40
PFTDA	ND	2.0	0.47	0.47	1	376-06-7		08/16/2022 22:40

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKUA
 Lab Sample ID BLANK-100350
 Lab File ID B220816B_009
 Matrix Water
 Collected 08/01/2022 10:36
 Received 08/01/2022 10:36
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 252mL
 Ical ID 220816A02
 CCal File B220816B_001
 Ending CCal File B220816B_012
 Blank File B220816B_009

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	17	87	50-150		08/16/2022 22:40
13C4 PFOA	20	19	94	50-150		08/16/2022 22:40
13C2 PFDA	20	18	93	50-150		08/16/2022 22:40
13C4 PFOS	19	17	90	50-150		08/16/2022 22:40

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	19	93	50-150		08/16/2022 22:40
13C5 PFPeA	20	19	95	50-150		08/16/2022 22:40
13C3 PFBS	18	18	98	50-150		08/16/2022 22:40
13C2 4:2FTS	19	18	96	50-150		08/16/2022 22:40
13C5 PFHxA	20	19	94	50-150		08/16/2022 22:40
13C4 PFHpA	20	18	91	50-150		08/16/2022 22:40
13C3 PFHxS	19	18	94	50-150		08/16/2022 22:40
13C2 6:2FTS	19	17	91	50-150		08/16/2022 22:40
13C8 PFOA	20	19	96	50-150		08/16/2022 22:40
13C9 PFNA	20	19	95	50-150		08/16/2022 22:40
13C8 PFOS	19	19	100	50-150		08/16/2022 22:40
13C2 8:2FTS	19	16	87	50-150		08/16/2022 22:40
13C6 PFDA	20	21	106	50-150		08/16/2022 22:40
d3-MeFOSAA	20	17	86	50-150		08/16/2022 22:40
13C8 PFOSA	20	14	73	50-150		08/16/2022 22:40
d5-EtFOSAA	20	17	84	50-150		08/16/2022 22:40
13C7 PFUdA	20	20	99	50-150		08/16/2022 22:40
13C2 PFDaA	20	21	106	50-150		08/16/2022 22:40
13C2 PFTeDA	20	17	85	50-150		08/16/2022 22:40
13C3 HFPO-DA	20	20	103	50-150		08/16/2022 22:40
13C2 PFHxDA	20	23	116	50-150		08/16/2022 22:40
d7-N-MeFOSE	20	15	73	20-150		08/16/2022 22:40
d9-N-EtFOSE	20	14	70	20-150		08/16/2022 22:40
d3-N-MeFOSA	20	7.4	38	20-150		08/16/2022 22:40
d5-N-EtFOSA	20	6.9	35	20-150		08/16/2022 22:40

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKUA
 Lab Sample ID BLANK-100350
 Lab File ID B220816B_009
 Matrix Water
 Collected 08/01/2022 10:36
 Received 08/01/2022 10:36
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 252mL
 Ical ID 220816A02
 CCal File B220816B_001
 Ending CCal File B220816B_012
 Blank File B220816B_009

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.79	5.77	21		08/16/2022 22:40
13C4 PFOA	N/A	N/A	7.06	7.07	24		08/16/2022 22:40
13C2 PFDA	N/A	N/A	8.39	8.39	27		08/16/2022 22:40
13C4 PFOS	N/A	N/A	8.87	8.88	21		08/16/2022 22:40

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.24	4.23	26		08/16/2022 22:40
13C5 PFPeA	N/A	N/A	5.12	5.10	21		08/16/2022 22:40
13C3 PFBS	N/A	N/A	6.03	6.02	29		08/16/2022 22:40
13C2 4:2FTS	N/A	N/A	5.52	5.51	91		08/16/2022 22:40
13C5 PFHxA	N/A	N/A	5.79	5.78	20		08/16/2022 22:40
13C4 PFHpA	N/A	N/A	6.42	6.42	17		08/16/2022 22:40
13C3 PFHxS	N/A	N/A	7.47	7.47	21		08/16/2022 22:40
13C2 6:2FTS	N/A	N/A	6.72	6.73	23		08/16/2022 22:40
13C8 PFOA	N/A	N/A	7.05	7.06	26		08/16/2022 22:40
13C9 PFNA	N/A	N/A	7.72	7.71	19		08/16/2022 22:40
13C8 PFOS	N/A	N/A	8.87	8.86	19		08/16/2022 22:40
13C2 8:2FTS	N/A	N/A	8.02	8.00	15		08/16/2022 22:40
13C6 PFDA	N/A	N/A	8.39	8.38	15		08/16/2022 22:40
d3-MeFOSAA	N/A	N/A	8.26	8.25	28		08/16/2022 22:40
13C8 PFOSA	N/A	N/A	10.50	10.42	11		08/16/2022 22:40
d5-EtFOSAA	N/A	N/A	8.54	8.54	35		08/16/2022 22:40
13C7 PFUdA	N/A	N/A	9.06	9.07	23		08/16/2022 22:40
13C2 PFDoA	N/A	N/A	9.72	9.71	15		08/16/2022 22:40
13C2 PFTeDA	N/A	N/A	11.03	11.02	12		08/16/2022 22:40
13C3 HFPO-DA	N/A	N/A	6.05	6.04	25		08/16/2022 22:40
13C2 PFHxDA	N/A	N/A	12.19	12.22	16		08/16/2022 22:40
d7-N-MeFOSE	N/A	N/A	12.45	12.44	64		08/16/2022 22:40
d9-N-EtFOSE	N/A	N/A	12.93	12.88	49		08/16/2022 22:40
d3-N-MeFOSA	N/A	N/A	12.67	12.65	92		08/16/2022 22:40
d5-N-EtFOSA	N/A	N/A	13.09	13.07	65		08/16/2022 22:40

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKUA
 Lab Sample ID BLANK-100350
 Lab File ID B220816B_009
 Matrix Water
 Collected 08/01/2022 10:36
 Received 08/01/2022 10:36
 Extraction Date 08/03/2022 22:17

Total Amount Extracted 252mL
 Ical ID 220816A02
 CCal File B220816B_001
 Ending CCal File B220816B_012
 Blank File B220816B_009

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.24	4.23	ND		08/16/2022 22:40
PFPeA	N/A	N/A	5.13	5.15	ND		08/16/2022 22:40
HFPO-DA	0.18	0.29	6.06	6.07	ND		08/16/2022 22:40
PFBS	0.66	0.47	6.03	6.02	ND		08/16/2022 22:40
PFHxA	0.10	0.08	5.80	5.81	ND		08/16/2022 22:40
4:2 FTS	0.00	0.80	0.00	5.54	ND		08/16/2022 22:40
PFPeS	0.00	0.40	0.00	6.79	ND		08/16/2022 22:40
PFHpA	0.30	0.30	6.43	6.44	ND		08/16/2022 22:40
DONA	0.00	0.51	0.00	6.67	ND		08/16/2022 22:40
PFHxS	0.46	0.39	7.49	7.49	ND		08/16/2022 22:40
PFOA	0.00	0.39	0.00	7.08	ND		08/16/2022 22:40
6:2 FTS	0.87	0.85	6.73	6.74	ND		08/16/2022 22:40
PFHpS	0.00	0.43	0.00	8.20	ND		08/16/2022 22:40
PFNA	0.17	0.14	7.73	7.73	ND		08/16/2022 22:40
PFOSAm	N/A	N/A	10.52	10.44	ND		08/16/2022 22:40
PFOS	0.34	0.40	8.89	8.90	ND		08/16/2022 22:40
MeFOSA	0.00	0.58	0.00	12.69	ND		08/16/2022 22:40
PFDA	0.00	0.21	0.00	8.40	ND		08/16/2022 22:40
EtFOSAm	0.00	0.60	0.00	13.10	ND		08/16/2022 22:40
8:2 FTS	1.30	0.98	8.03	8.02	ND		08/16/2022 22:40
9-CI-PF3ON	0.00	0.06	0.00	9.39	ND		08/16/2022 22:40
PFNS	0.00	0.52	0.00	9.58	ND		08/16/2022 22:40
PFUnDA	0.00	0.14	0.00	9.05	ND		08/16/2022 22:40
NMeFOSAA	0.00	0.85	0.00	8.26	ND		08/16/2022 22:40
NEtFOSAA	0.00	0.69	0.00	8.55	ND		08/16/2022 22:40
PFDS	0.00	0.34	0.00	10.19	ND		08/16/2022 22:40
PFDOA	0.00	0.18	0.00	9.72	ND		08/16/2022 22:40
MeFOSE	N/A	N/A	0.00	12.45	ND		08/16/2022 22:40
EtFOSE	0.00	0.00	0.00	12.92	ND		08/16/2022 22:40
11-CI-PF3OUdS	0.00	0.01	0.00	10.66	ND		08/16/2022 22:40
PFTTrDA	0.00	0.16	0.00	10.37	ND		08/16/2022 22:40
PFDoS	0.00	0.49	0.00	11.43	ND		08/16/2022 22:40
PFTDA	0.00	0.25	0.00	11.02	ND		08/16/2022 22:40

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-100250	Instrument ID	10LCMS02
Run File Name	B220808A_034	Column ID	118AB10133
Analyzed	08/08/2022 18:44	Ical ID	220803A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	0.99	1.1	115	50-150	
13C4 PFOA	0.99	1.1	111	50-150	
13C2 PFDA	0.99	1.1	110	50-150	
13C4 PFOS	0.95	1.1	111	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	0.99	0.98	98	50-150	
13C5 PFPeA	0.99	0.96	96	50-150	
13C3 PFBS	0.92	0.97	106	50-150	
13C2 4:2FTS	0.93	0.90	97	50-150	
13C5 PFHxA	0.99	0.98	99	50-150	
13C4 PFHpA	0.99	0.91	92	50-150	
13C3 PFHxS	0.94	0.92	98	50-150	
13C2 6:2FTS	0.94	0.95	101	50-150	
13C8 PFOA	0.99	0.97	97	50-150	
13C9 PFNA	0.99	0.96	97	50-150	
13C8 PFOS	0.95	0.99	104	50-150	
13C2 8:2FTS	0.95	1.1	118	50-150	
13C6 PFDA	0.99	1.2	117	50-150	
d3-MeFOSAA	0.99	1.0	102	50-150	
13C8 PFOSA	0.99	0.90	91	50-150	
d5-EtFOSAA	0.99	1.0	104	50-150	
13C7 PFUdA	0.99	1.0	105	50-150	
13C2 PFDoA	0.99	0.93	94	50-150	
13C2 PFTeDA	0.99	0.93	94	50-150	
13C3 HFPO-DA	0.99	0.86	87	50-150	
13C2 PFHxDA	0.99	0.90	91	50-150	
d7-N-MeFOSE	0.99	0.98	99	20-150	
d9-N-EtFOSE	0.99	0.82	82	20-150	
d3-N-MeFOSA	0.99	0.86	87	20-150	
d5-N-EtFOSA	0.99	0.80	81	20-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Page 2 of 4

Lab Sample ID LCS-100250
 Run File Name B220808A_034
 Analyzed 08/08/2022 18:44
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.22	109	50-150		375-22-4
PFPeA	0.20	0.23	115	50-150		2706-90-3
HFPO-DA	0.20	0.22	113	50-150		13252-13-6
PFBS	0.18	0.18	104	50-150		375-73-5
PFHxA	0.20	0.21	107	50-150		307-24-4
4:2 FTS	0.19	0.23	122	50-150		757124-72-4
PFPeS	0.19	0.20	108	50-150		2706-91-4
PFHpA	0.20	0.23	114	50-150		375-85-9
DONA	0.19	0.18	96	50-150		919005-14-4
PFHxS	0.18	0.18	102	50-150		355-46-4
PFOA	0.20	0.20	102	50-150		335-67-1
6:2 FTS	0.19	0.19	101	50-150		27619-97-2
PFHpS	0.19	0.22	116	50-150		375-92-8
PFNA	0.20	0.20	102	50-150		375-95-1
PFOSAm	0.20	0.21	105	50-150		754-91-6
PFOS	0.18	0.19	101	50-150		1763-23-1
MeFOSA	0.20	0.21	106	50-150		31506-32-8
PFDA	0.20	0.19	97	50-150		335-76-2
EtFOSAm	0.20	0.21	105	50-150		4151-50-2
8:2 FTS	0.19	0.22	114	50-150		39108-34-4
9-CI-PF3ON	0.18	0.20	111	50-150		756426-58-1
PFNS	0.19	0.22	116	50-150		68259-12-1
PFUnDA	0.20	0.20	101	50-150		2058-94-8
NMeFOSAA	0.20	0.20	103	50-150		2355-31-9
NEtFOSAA	0.20	0.20	99	50-150		2991-50-6
PFDS	0.19	0.21	111	50-150		335-77-3
PFDOA	0.20	0.21	107	50-150		307-55-1
MeFOSE	0.20	0.19	96	50-150		24448-09-7
EtFOSE	0.20	0.26	134	50-150		1691-99-2
11-CI-PF3OUdS	0.19	0.21	110	50-150		763051-92-9
PFTrDA	0.20	0.19	96	50-150		72629-94-8
PFDoS	0.19	0.20	102	50-150		79780-39-5
PFTDA	0.20	0.25	124	50-150		376-06-7

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100250
 Run File Name B220808A_034
 Analyzed 08/08/2022 18:44
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.75	5.80	1568	
13C4 PFOA	N/A	N/A	7.03	7.07	2205	
13C2 PFDA	N/A	N/A	8.34	8.39	2194	
13C4 PFOS	N/A	N/A	8.81	8.88	2033	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.34	4.30	2900	
13C5 PFPeA	N/A	N/A	5.12	5.15	2295	
13C3 PFBS	N/A	N/A	6.00	6.05	3073	
13C2 4:2FTS	N/A	N/A	5.49	5.54	1183	
13C5 PFHxA	N/A	N/A	5.75	5.80	1495	
13C4 PFHpA	N/A	N/A	6.39	6.43	1497	
13C3 PFHxS	N/A	N/A	7.44	7.49	2298	
13C2 6:2FTS	N/A	N/A	6.69	6.74	2165	
13C8 PFOA	N/A	N/A	7.03	7.07	1999	
13C9 PFNA	N/A	N/A	7.68	7.72	2146	
13C8 PFOS	N/A	N/A	8.81	8.88	3074	
13C2 8:2FTS	N/A	N/A	7.96	8.01	730129	
13C6 PFDA	N/A	N/A	8.34	8.39	1310	
d3-MeFOSAA	N/A	N/A	8.20	8.25	1495	
13C8 PFOSA	N/A	N/A	10.61	10.61	1442	
d5-EtFOSAA	N/A	N/A	8.50	8.54	1266	
13C7 PFUdA	N/A	N/A	9.00	9.07	2601	
13C2 PFDoA	N/A	N/A	9.67	9.74	1629	
13C2 PFTeDA	N/A	N/A	10.97	11.07	1342	
13C3 HFPO-DA	N/A	N/A	6.01	6.06	1532	
13C2 PFHxDA	N/A	N/A	12.14	12.11	1386	
d7-N-MeFOSE	N/A	N/A	12.37	12.45	54	
d9-N-EtFOSE	N/A	N/A	12.85	12.92	491	
d3-N-MeFOSA	N/A	N/A	12.59	12.66	965	
d5-N-EtFOSA	N/A	N/A	13.02	13.08	711	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100250
 Run File Name B220808A_034
 Analyzed 08/08/2022 18:44
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.34	4.31	100	
PFPeA	N/A	N/A	5.13	5.15	301	
HFPO-DA	0.26	0.27	6.02	6.07	774	
PFBS	0.41	0.43	6.01	6.06	923	
PFHxA	0.08	0.07	5.76	5.81	425	
4:2 FTS	0.81	0.90	5.49	5.54	1036	
PFPeS	0.45	0.45	6.74	6.79	1381	
PFHpA	0.29	0.28	6.39	6.44	21	
DONA	0.52	0.50	6.63	6.67	1735	
PFHxS	0.40	0.38	7.45	7.49	1444	
PFOA	0.38	0.35	7.04	7.08	176	
6:2 FTS	0.85	0.83	6.69	6.74	571	
PFHpS	0.33	0.43	8.14	8.20	2989	
PFNA	0.14	0.16	7.69	7.73	786	
PFOSAm	N/A	N/A	10.62	10.61	1183	
PFOS	0.41	0.35	8.82	8.90	691	
MeFOSA	0.53	0.54	12.61	12.61	826	
PFDA	0.18	0.15	8.35	8.40	56	
EtFOSAm	0.59	0.62	13.04	13.10	724	
8:2 FTS	0.82	0.85	7.97	8.02	6864932	
9-Cl-PF3ON	0.05	0.06	9.31	9.39	1442	
PFNS	0.49	0.48	9.49	9.58	1781	
PFUnDA	0.13	0.14	9.01	9.08	504	
NMeFOSAA	0.89	0.86	8.21	8.26	3308075	
NEtFOSAA	0.71	0.69	8.51	8.55	351	
PFDS	0.35	0.36	10.15	10.24	2483	
PFDOA	0.18	0.18	9.68	9.75	378	
MeFOSE	N/A	N/A	12.41	12.49	325	
EtFOSE	0.00	0.00	12.89	12.96	450	
11-Cl-PF3OUdS	0.02	0.02	10.62	10.72	658	
PFTrDA	0.17	0.15	10.34	10.42	350	
PFDoS	0.49	0.45	11.38	11.48	1916	
PFTDA	0.22	0.21	10.98	11.07	282	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-100323	Instrument ID	10LCMS02
Run File Name	B220816B_003	Column ID	118AB10133
Analyzed	08/16/2022 20:40	Ical ID	220816A02
Injected By	QL	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.0	1.1	108	50-150	
13C4_PFOA	1.0	1.1	114	50-150	
13C2_PFDA	1.0	1.1	112	50-150	
13C4_PFOS	0.96	1.1	110	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	1.0	0.99	99	50-150	
13C5_PFPeA	1.0	1.0	101	50-150	
13C3_PFBFS	0.93	0.93	100	50-150	
13C2_4:2FTS	0.94	0.99	106	50-150	
13C5_PFHxA	1.0	1.0	104	50-150	
13C4_PFHpA	1.0	0.98	98	50-150	
13C3_PFHxS	0.95	0.95	101	50-150	
13C2_6:2FTS	0.95	0.89	94	50-150	
13C8_PFOA	1.0	1.0	104	50-150	
13C9_PFNA	1.0	1.0	102	50-150	
13C8_PFOS	0.96	1.0	106	50-150	
13C2_8:2FTS	0.96	1.3	137	50-150	
13C6_PFDA	1.0	1.2	125	50-150	
d3-MeFOSAA	1.0	1.2	118	50-150	
13C8_PFOSA	1.0	0.98	98	50-150	
d5-EtFOSAA	1.0	1.1	106	50-150	
13C7_PFUdA	1.0	1.2	124	50-150	
13C2_PFDaA	1.0	1.1	106	50-150	
13C2_PFTeDA	1.0	1.0	103	50-150	
13C3_HFPO-DA	1.0	1.0	101	50-150	
13C2_PFHxDA	1.0	0.91	91	50-150	
d7-N-MeFOSE	1.0	1.1	109	20-150	
d9-N-EtFOSE	1.0	0.95	95	20-150	
d3-N-MeFOSA	1.0	1.0	104	20-150	
d5-N-EtFOSA	1.0	0.99	99	20-150	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100323
 Run File Name B220816B_003
 Analyzed 08/16/2022 20:40
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.23	114	50-150		375-22-4
PFPeA	0.20	0.24	119	50-150		2706-90-3
HFPO-DA	0.20	0.22	111	50-150		13252-13-6
PFBS	0.18	0.21	117	50-150		375-73-5
PFHxA	0.20	0.24	120	50-150		307-24-4
4:2 FTS	0.19	0.21	110	50-150		757124-72-4
PFPeS	0.19	0.22	115	50-150		2706-91-4
PFHpA	0.20	0.23	114	50-150		375-85-9
DONA	0.19	0.21	109	50-150		919005-14-4
PFHxS	0.18	0.21	115	50-150		355-46-4
PFOA	0.20	0.22	111	50-150		335-67-1
6:2 FTS	0.19	0.23	120	50-150		27619-97-2
PFHpS	0.19	0.21	109	50-150		375-92-8
PFNA	0.20	0.21	106	50-150		375-95-1
PFOSAm	0.20	0.23	115	50-150		754-91-6
PFOS	0.18	0.19	103	50-150		1763-23-1
MeFOSA	0.20	0.20	101	50-150		31506-32-8
PFDA	0.20	0.22	112	50-150		335-76-2
EtFOSAm	0.20	0.22	108	50-150		4151-50-2
8:2 FTS	0.19	0.19	97	50-150		39108-34-4
9-CI-PF3ON	0.19	0.20	108	50-150		756426-58-1
PFNS	0.19	0.21	111	50-150		68259-12-1
PFUnDA	0.20	0.23	113	50-150		2058-94-8
NMeFOSAA	0.20	0.22	110	50-150		2355-31-9
NEtFOSAA	0.20	0.22	110	50-150		2991-50-6
PFDS	0.19	0.21	107	50-150		335-77-3
PFDOA	0.20	0.21	106	50-150		307-55-1
MeFOSE	0.20	0.19	94	50-150		24448-09-7
EtFOSE	0.20	0.21	107	50-150		1691-99-2
11-CI-PF3OUdS	0.19	0.20	106	50-150		763051-92-9
PFTrDA	0.20	0.20	99	50-150		72629-94-8
PFDoS	0.19	0.20	103	50-150		79780-39-5
PFTDA	0.20	0.24	118	50-150		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100323
 Run File Name B220816B_003
 Analyzed 08/16/2022 20:40
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.79	5.77	2526	
13C4 PFOA	N/A	N/A	7.05	7.07	1906	
13C2 PFDA	N/A	N/A	8.39	8.39	2074	
13C4 PFOS	N/A	N/A	8.87	8.88	2022	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.24	4.23	2298	
13C5 PFPeA	N/A	N/A	5.12	5.10	2346	
13C3 PFBS	N/A	N/A	6.03	6.02	2638	
13C2 4:2FTS	N/A	N/A	5.52	5.51	1031	
13C5 PFHxA	N/A	N/A	5.79	5.78	1970	
13C4 PFHpA	N/A	N/A	6.42	6.42	1846	
13C3 PFHxS	N/A	N/A	7.47	7.47	1863	
13C2 6:2FTS	N/A	N/A	6.72	6.73	1956	
13C8 PFOA	N/A	N/A	7.05	7.06	2443	
13C9 PFNA	N/A	N/A	7.73	7.71	3253	
13C8 PFOS	N/A	N/A	8.87	8.86	3456	
13C2 8:2FTS	N/A	N/A	8.02	8.00	2650	
13C6 PFDA	N/A	N/A	8.40	8.38	2104	
d3-MeFOSAA	N/A	N/A	8.26	8.25	1420	
13C8 PFOSA	N/A	N/A	10.50	10.42	1380	
d5-EtFOSAA	N/A	N/A	8.55	8.54	1732	
13C7 PFUdA	N/A	N/A	9.06	9.07	2786	
13C2 PFDoA	N/A	N/A	9.73	9.71	1487	
13C2 PFTeDA	N/A	N/A	11.02	11.02	1848	
13C3 HFPO-DA	N/A	N/A	6.05	6.04	1922	
13C2 PFHxDA	N/A	N/A	12.19	12.22	1669	
d7-N-MeFOSE	N/A	N/A	12.46	12.44	53	
d9-N-EtFOSE	N/A	N/A	12.93	12.88	585	
d3-N-MeFOSA	N/A	N/A	12.67	12.65	1342	
d5-N-EtFOSA	N/A	N/A	13.09	13.07	833	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100323
 Run File Name B220816B_003
 Analyzed 08/16/2022 20:40
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.24	4.23	193	
PFPeA	N/A	N/A	5.12	5.15	404	
HFPO-DA	0.28	0.29	6.06	6.07	548	
PFBS	0.43	0.47	6.03	6.02	1339	
PFHxA	0.07	0.08	5.80	5.81	288	
4:2 FTS	0.87	0.80	5.53	5.54	456459	
PFPeS	0.41	0.40	6.76	6.79	1629	
PFHpA	0.29	0.30	6.42	6.44	20	
DONA	0.56	0.51	6.65	6.67	1649	
PFHxS	0.36	0.39	7.48	7.49	1145	
PFOA	0.38	0.39	7.06	7.08	272	
6:2 FTS	0.84	0.85	6.72	6.74	400	
PFHpS	0.37	0.43	8.20	8.20	1375	
PFNA	0.14	0.14	7.73	7.73	691	
PFOSAm	N/A	N/A	10.50	10.44	1046	
PFOS	0.40	0.40	8.88	8.90	624	
MeFOSA	0.57	0.58	12.69	12.69	1369	
PFDA	0.18	0.21	8.41	8.40	615	
EtFOSAm	0.57	0.60	13.11	13.10	920	
8:2 FTS	0.89	0.98	8.02	8.02	6811444	
9-CI-PF3ON	0.06	0.06	9.37	9.39	1309	
PFNS	0.44	0.52	9.55	9.58	1262	
PFUnDA	0.13	0.14	9.07	9.05	567	
NMeFOSAA	0.86	0.85	8.27	8.26	155	
NEtFOSAA	0.70	0.69	8.56	8.55	403	
PFDS	0.35	0.34	10.21	10.19	1852	
PFDOA	0.19	0.18	9.73	9.72	293	
MeFOSE	N/A	N/A	12.49	12.45	377	
EtFOSE	0.00	0.00	12.97	12.92	419	
11-CI-PF3OUdS	0.02	0.01	10.68	10.66	557	
PFTrDA	0.17	0.16	10.39	10.37	304	
PFDoS	0.47	0.49	11.43	11.43	2772	
PFTDA	0.23	0.25	11.03	11.02	244	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-100351	Instrument ID	10LCMS02
Run File Name	B220816B_010	Column ID	118AB10133
Analyzed	08/16/2022 23:00	Ical ID	220816A02
Injected By	QL	Level	L

Injection Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	20	17	87	50-150	
13C4_PFOA	20	18	91	50-150	
13C2_PFDA	20	17	86	50-150	
13C4_PFOS	19	17	88	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	20	18	93	50-150	
13C5_PFPeA	20	19	95	50-150	
13C3_PFBFS	18	18	96	50-150	
13C2_4:2FTS	19	17	94	50-150	
13C5_PFHxA	20	19	95	50-150	
13C4_PFHpA	20	20	98	50-150	
13C3_PFHxS	19	18	97	50-150	
13C2_6:2FTS	19	18	98	50-150	
13C8_PFOA	20	19	97	50-150	
13C9_PFNA	20	18	90	50-150	
13C8_PFOS	19	18	97	50-150	
13C2_8:2FTS	19	16	82	50-150	
13C6_PFDA	20	21	104	50-150	
d3-MeFOSAA	20	18	90	50-150	
13C8_PFOSA	20	16	83	50-150	
d5-EtFOSAA	20	16	80	50-150	
13C7_PFUdA	20	19	95	50-150	
13C2_PFDaA	20	20	101	50-150	
13C2_PFTeDA	20	17	86	50-150	
13C3_HFPO-DA	20	20	100	50-150	
13C2_PFHxDA	20	15	77	50-150	
d7-N-MeFOSE	20	15	78	20-150	
d9-N-EtFOSE	20	16	81	20-150	
d3-N-MeFOSA	20	13	66	20-150	
d5-N-EtFOSA	20	13	64	20-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100351
 Run File Name B220816B_010
 Analyzed 08/16/2022 23:00
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Native Analytes

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.0	4.2	107	50-150		375-22-4
PFPeA	4.0	4.3	107	50-150		2706-90-3
HFPO-DA	4.0	4.1	104	50-150		13252-13-6
PFBS	3.5	3.8	110	50-150		375-73-5
PFHxA	4.0	4.3	108	50-150		307-24-4
4:2 FTS	3.7	3.5	95	50-150		757124-72-4
PFPeS	3.7	4.0	107	50-150		2706-91-4
PFHpA	4.0	4.0	102	50-150		375-85-9
DONA	3.8	4.0	107	50-150		919005-14-4
PFHxS	3.6	3.7	103	50-150		355-46-4
PFOA	4.0	4.0	100	50-150		335-67-1
6:2 FTS	3.8	3.6	97	50-150		27619-97-2
PFHpS	3.8	4.1	110	50-150		375-92-8
PFNA	4.0	4.3	109	50-150		375-95-1
PFOSAm	4.0	4.1	103	50-150		754-91-6
PFOS	3.7	3.6	98	50-150		1763-23-1
MeFOSA	4.0	3.7	94	50-150		31506-32-8
PFDA	4.0	4.2	105	50-150		335-76-2
EtFOSAm	4.0	3.9	99	50-150		4151-50-2
8:2 FTS	3.8	4.2	109	50-150		39108-34-4
9-CI-PF3ON	3.7	3.7	101	50-150		756426-58-1
PFNS	3.8	3.8	100	50-150		68259-12-1
PFUnDA	4.0	4.3	108	50-150		2058-94-8
NMeFOSAA	4.0	4.0	100	50-150		2355-31-9
NEtFOSAA	4.0	4.1	104	50-150		2991-50-6
PFDS	3.8	3.7	97	50-150		335-77-3
PFDOA	4.0	3.8	96	50-150		307-55-1
MeFOSE	4.0	4.3	109	50-150		24448-09-7
EtFOSE	4.0	3.7	94	50-150		1691-99-2
11-CI-PF3OUdS	3.7	3.4	91	50-150	I	763051-92-9
PFTrDA	4.0	3.5	87	50-150		72629-94-8
PFDoS	3.8	3.5	91	50-150		79780-39-5
PFTDA	4.0	3.6	91	50-150		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100351
 Run File Name B220816B_010
 Analyzed 08/16/2022 23:00
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.79	5.77	1988	
13C4 PFOA	N/A	N/A	7.05	7.07	2065	
13C2 PFDA	N/A	N/A	8.39	8.39	1686	
13C4 PFOS	N/A	N/A	8.87	8.88	1996	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.24	4.23	2237	
13C5 PFPeA	N/A	N/A	5.12	5.10	2453	
13C3 PFBS	N/A	N/A	6.03	6.02	2616	
13C2 4:2FTS	N/A	N/A	5.52	5.51	996	
13C5 PFHxA	N/A	N/A	5.79	5.78	2118	
13C4 PFHpA	N/A	N/A	6.42	6.42	1940	
13C3 PFHxS	N/A	N/A	7.47	7.47	2082	
13C2 6:2FTS	N/A	N/A	6.72	6.73	3152	
13C8 PFOA	N/A	N/A	7.05	7.06	2012	
13C9 PFNA	N/A	N/A	7.72	7.71	2059	
13C8 PFOS	N/A	N/A	8.87	8.86	2454	
13C2 8:2FTS	N/A	N/A	8.01	8.00	2415	
13C6 PFDA	N/A	N/A	8.39	8.38	2010	
d3-MeFOSAA	N/A	N/A	8.25	8.25	4349	
13C8 PFOSA	N/A	N/A	10.50	10.42	1172	
d5-EtFOSAA	N/A	N/A	8.54	8.54	1801	
13C7 PFUdA	N/A	N/A	9.06	9.07	2748	
13C2 PFDoA	N/A	N/A	9.73	9.71	1670	
13C2 PFTeDA	N/A	N/A	11.03	11.02	1265	
13C3 HFPO-DA	N/A	N/A	6.05	6.04	1790	
13C2 PFHxDA	N/A	N/A	12.19	12.22	1388	
d7-N-MeFOSE	N/A	N/A	12.45	12.44	55	
d9-N-EtFOSE	N/A	N/A	12.93	12.88	573	
d3-N-MeFOSA	N/A	N/A	12.67	12.65	1108	
d5-N-EtFOSA	N/A	N/A	13.09	13.07	754	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100351
 Run File Name B220816B_010
 Analyzed 08/16/2022 23:00
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.24	4.23	175	
PFPeA	N/A	N/A	5.12	5.15	381	
HFPO-DA	0.29	0.29	6.06	6.07	916	
PFBS	0.45	0.47	6.03	6.02	1043	
PFHxA	0.08	0.08	5.80	5.81	278	
4:2 FTS	0.86	0.80	5.53	5.54	6228	
PFPeS	0.41	0.40	6.76	6.79	1486	
PFHpA	0.30	0.30	6.42	6.44	20	
DONA	0.55	0.51	6.65	6.67	1595	
PFHxS	0.38	0.39	7.47	7.49	1294	
PFOA	0.40	0.39	7.06	7.08	197	
6:2 FTS	0.87	0.85	6.72	6.74	316	
PFHpS	0.39	0.43	8.19	8.20	1245	
PFNA	0.13	0.14	7.73	7.73	671	
PFOSAm	N/A	N/A	10.51	10.44	1508	
PFOS	0.37	0.40	8.88	8.90	595	
MeFOSA	0.58	0.58	12.69	12.69	684	
PFDA	0.19	0.21	8.40	8.40	401	
EtFOSAm	0.57	0.60	13.11	13.10	1011	
8:2 FTS	0.95	0.98	8.02	8.02	38661	
9-CI-PF3ON	0.06	0.06	9.37	9.39	960	
PFNS	0.51	0.52	9.55	9.58	1173	
PFUnDA	0.14	0.14	9.07	9.05	457	
NMeFOSAA	0.80	0.85	8.26	8.26	208	
NEtFOSAA	0.58	0.69	8.56	8.55	366	
PFDS	0.35	0.34	10.21	10.19	2275	
PFDOA	0.17	0.18	9.73	9.72	286	
MeFOSE	N/A	N/A	12.49	12.45	304	
EtFOSE	0.00	0.00	12.97	12.92	440	
11-CI-PF3OUdS	0.02	0.01	10.68	10.66	518	I
PFTrDA	0.17	0.16	10.39	10.37	268	
PFDoS	0.48	0.49	11.44	11.43	2828	
PFTDA	0.24	0.25	11.03	11.02	253	

REPORT OF LABORATORY ANALYSIS

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LCSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCSD-100429
 Run File Name B220816B_011
 Analyzed 08/16/2022 23:20
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Injection Internal Standards

Compound	Known Conc. ng/L	LCS Conc. Found ng/L	LCS Rec. %	LCSD Conc. Found ng/L	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
13C2_PFHxA	19	17	87	17	88	1.5	50-150	
13C4_PFOA	19	18	91	18	93	2.7	50-150	
13C2_PFDA	19	17	86	18	92	6.2	50-150	
13C4_PFOS	18	17	88	15	83	6.0	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	LCS Conc. Found ng/L	LCS Rec. %	LCSD Conc. Found ng/L	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
13C4_PFBFA	19	18	93	18	93	0.0	50-150	
13C5_PFPeA	19	19	95	18	94	0.8	50-150	
13C3_PFBFS	18	18	96	17	94	2.2	50-150	
13C2_4:2FTS	18	17	94	16	87	7.4	50-150	
13C5_PFHxA	19	19	95	19	98	3.1	50-150	
13C4_PFHpA	19	20	98	18	95	3.6	50-150	
13C3_PFHxS	18	18	97	17	92	5.9	50-150	
13C2_6:2FTS	18	18	98	17	92	5.6	50-150	
13C8_PFOA	19	19	97	18	94	2.8	50-150	
13C9_PFNA	19	18	90	17	91	1.1	50-150	
13C8_PFOS	18	18	97	17	94	2.9	50-150	
13C2_8:2FTS	18	16	82	16	89	7.6	50-150	
13C6_PFDA	19	21	104	20	104	0.3	50-150	
d3-MeFOSAA	19	18	90	16	85	5.4	50-150	
13C8_PFOA	19	16	83	15	79	4.1	50-150	
d5-EtFOSAA	19	16	80	14	72	10.0	50-150	
13C7_PFUdA	19	19	95	17	91	4.3	50-150	
13C2_PFDoA	19	20	101	17	90	12.2	50-150	
13C2_PFTeDA	19	17	86	15	78	9.4	50-150	
13C3_HFPO-DA	19	20	100	18	95	5.1	50-150	
13C2_PFHxDA	19	15	77	15	77	0.9	50-150	
d7-N-MeFOSE	19	15	78	16	82	5.0	20-150	
d9-N-EtFOSE	19	16	81	14	73	10.0	20-150	
d3-N-MeFOSA	19	13	66	11	57	13.4	20-150	
d5-N-EtFOSA	19	13	64	10	54	16.3	20-150	

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LCSD Analysis Summary
 PFAS by Isotope Dilution

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Lab Sample ID LCSD-100429
 Run File Name B220816B_011
 Analyzed 08/16/2022 23:20
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Native Analytes

Compound	Known Conc. ng/L	LCS Conc. Found ng/L	LCS Rec. %	LCSD Conc. Found ng/L	LCSD Rec. %	RPD %	Recovery Limits	Qualifiers
PFBA	3.8	4.2	107	4.1	106	0.9	50-150	
PFPeA	3.8	4.3	107	4.1	108	0.2	50-150	
HFPO-DA	3.8	4.1	104	3.9	102	2.4	50-150	
PFBS	3.4	3.8	110	3.5	104	5.1	50-150	
PFHxA	3.8	4.3	108	4.0	104	4.0	50-150	
4:2 FTS	3.6	3.5	95	3.9	110	14.5	50-150	
PFPeS	3.6	4.0	107	3.9	108	0.4	50-150	
PFHpA	3.8	4.0	102	3.9	101	0.6	50-150	
DONA	3.6	4.0	107	3.9	108	1.1	50-150	
PFHxS	3.5	3.7	103	3.6	103	0.2	50-150	
PFOA	3.8	4.0	100	3.8	99	0.3	50-150	
6:2 FTS	3.6	3.6	97	3.6	99	2.2	50-150	
PFHpS	3.6	4.1	110	3.7	102	7.1	50-150	
PFNA	3.8	4.3	109	3.8	99	9.8	50-150	
PFOSAm	3.8	4.1	103	4.0	105	1.5	50-150	
PFOS	3.5	3.6	98	3.4	96	1.2	50-150	
MeFOSA	3.8	3.7	94	3.7	96	2.6	50-150	
PFDA	3.8	4.2	105	3.1	82	24.9	50-150	
EtFOSAm	3.8	3.9	99	3.7	96	2.9	50-150	
8:2 FTS	3.7	4.2	109	3.4	93	15.6	50-150	
9-Cl-PF3ON	3.6	3.7	101	3.5	99	2.3	50-150	
PFNS	3.7	3.8	100	3.4	92	8.8	50-150	
PFUnDA	3.8	4.3	108	3.9	103	4.5	50-150	
NMeFOSAA	3.8	4.0	100	3.8	100	0.6	50-150	
NEtFOSAA	3.8	4.1	104	4.0	105	0.8	50-150	
PFDS	3.7	3.7	97	3.3	88	9.5	50-150	
PFDOA	3.8	3.8	96	4.1	106	9.6	50-150	
MeFOSE	3.8	4.3	109	3.5	91	17.8	50-150	
EtFOSE	3.8	3.7	94	3.8	99	5.0	50-150	
11-Cl-PF3OUdS	3.6	3.4	91	3.1	87	3.9	50-150	
PFTrDA	3.8	3.5	87	3.7	97	10.6	50-150	
PFDoS	3.7	3.5	91	3.3	89	2.7	50-150	
PFTDA	3.8	3.6	91	4.2	110	19.1	50-150	

REPORT OF LABORATORY ANALYSIS

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LCSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCSD-100429
 Run File Name B220816B_011
 Analyzed 08/16/2022 23:20
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.79	5.77	2174	
13C4 PFOA	N/A	N/A	7.05	7.07	2555	
13C2 PFDA	N/A	N/A	8.39	8.39	1621	
13C4 PFOS	N/A	N/A	8.87	8.88	2210	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.24	4.23	2406	
13C5 PFPeA	N/A	N/A	5.12	5.10	2603	
13C3 PFBS	N/A	N/A	6.03	6.02	3274	
13C2 4:2FTS	N/A	N/A	5.52	5.51	1038	
13C5 PFHxA	N/A	N/A	5.79	5.78	1652	
13C4 PFHpA	N/A	N/A	6.41	6.42	2158	
13C3 PFHxS	N/A	N/A	7.47	7.47	2119	
13C2 6:2FTS	N/A	N/A	6.72	6.73	2309	
13C8 PFOA	N/A	N/A	7.05	7.06	2583	
13C9 PFNA	N/A	N/A	7.72	7.71	2403	
13C8 PFOS	N/A	N/A	8.87	8.86	2773	
13C2 8:2FTS	N/A	N/A	8.01	8.00	2965	
13C6 PFDA	N/A	N/A	8.39	8.38	2143	
d3-MeFOSAA	N/A	N/A	8.25	8.25	2035	
13C8 PFOSA	N/A	N/A	10.50	10.42	1522	
d5-EtFOSAA	N/A	N/A	8.54	8.54	1133	
13C7 PFUdA	N/A	N/A	9.06	9.07	2086	
13C2 PFDoA	N/A	N/A	9.73	9.71	1680	
13C2 PFTeDA	N/A	N/A	11.03	11.02	1212	
13C3 HFPO-DA	N/A	N/A	6.05	6.04	2444	
13C2 PFHxDA	N/A	N/A	12.19	12.22	1479	
d7-N-MeFOSE	N/A	N/A	12.46	12.44	50	
d9-N-EtFOSE	N/A	N/A	12.93	12.88	433	
d3-N-MeFOSA	N/A	N/A	12.67	12.65	810	
d5-N-EtFOSA	N/A	N/A	13.09	13.07	811	

REPORT OF LABORATORY ANALYSIS

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LCSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCSD-100429
 Run File Name B220816B_011
 Analyzed 08/16/2022 23:20
 Injected By QL

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220816A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.25	4.23	175	
PFPeA	N/A	N/A	5.12	5.15	332	
HFPO-DA	0.30	0.29	6.06	6.07	788	
PFBS	0.44	0.47	6.03	6.02	872	
PFHxA	0.08	0.08	5.80	5.81	294	
4:2 FTS	0.80	0.80	5.53	5.54	31503	
PFPeS	0.42	0.40	6.76	6.79	1623	
PFHpA	0.32	0.30	6.42	6.44	21	
DONA	0.55	0.51	6.65	6.67	1776	
PFHxS	0.38	0.39	7.47	7.49	1362	
PFOA	0.40	0.39	7.06	7.08	198	
6:2 FTS	0.83	0.85	6.72	6.74	429	
PFHpS	0.42	0.43	8.19	8.20	1211	
PFNA	0.14	0.14	7.73	7.73	715	
PFOSAm	N/A	N/A	10.51	10.44	1149	
PFOS	0.40	0.40	8.89	8.90	543	
MeFOSA	0.56	0.58	12.69	12.69	17730	
PFDA	0.18	0.21	8.40	8.40	322	
EtFOSAm	0.59	0.60	13.11	13.10	658	
8:2 FTS	0.81	0.98	8.01	8.02	1116	
9-CI-PF3ON	0.05	0.06	9.37	9.39	984	
PFNS	0.50	0.52	9.56	9.58	1055	
PFUnDA	0.12	0.14	9.07	9.05	419	
NMeFOSAA	0.76	0.85	8.26	8.26	276	
NEtFOSAA	0.62	0.69	8.55	8.55	244	
PFDS	0.34	0.34	10.21	10.19	1433	
PFDOA	0.17	0.18	9.73	9.72	294	
MeFOSE	N/A	N/A	12.50	12.45	311	
EtFOSE	0.00	0.00	12.97	12.92	441	
11-CI-PF3OUdS	0.02	0.01	10.68	10.66	557	
PFTrDA	0.15	0.16	10.39	10.37	260	
PFDoS	0.47	0.49	11.44	11.43	2066	
PFTDA	0.22	0.25	11.03	11.02	240	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MS
 Run File Name B220810E_005
 Analyzed 08/11/2022 00:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220810B02
 Level

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	1.2	1.5	127	50-150	
13C4 PFOA	1.2	1.3	113	50-150	
13C2 PFDA	1.2	1.5	133	50-150	
13C4 PFOS	1.1	1.4	127	50-150	

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	1.2	1.0	91	25-150	
13C5 PFPeA	1.2	1.1	92	25-150	
13C3 PFBS	1.1	1.0	95	25-150	
13C2 4:2FTS	1.1	0.94	87	25-150	
13C5 PFHxA	1.2	1.1	99	25-150	
13C4 PFHpA	1.2	1.1	95	25-150	
13C3 PFHxS	1.1	1.0	92	25-150	
13C2 6:2FTS	1.1	0.99	91	25-150	
13C8 PFOA	1.2	1.0	90	25-150	
13C9 PFNA	1.2	1.0	89	25-150	
13C8 PFOS	1.1	0.94	85	25-150	
13C2 8:2FTS	1.1	1.1	101	25-150	
13C6 PFDA	1.2	1.2	105	25-150	
d3-MeFOSAA	1.2	1.3	110	25-150	
13C8 PFOSA	1.2	0.72	63	25-150	
d5-EtFOSAA	1.2	1.3	109	25-150	
13C7 PFUdA	1.2	1.4	117	25-150	
13C2 PFDoA	1.2	1.3	116	25-150	
13C2 PFTeDA	1.2	1.5	126	25-150	
13C3 HFPO-DA	1.2	1.1	94	25-150	
13C2 PFHxDA	1.2	1.7	150	25-150	
d7-N-MeFOSE	1.2	0.41	35	10-150	
d9-N-EtFOSE	1.2	0.49	43	10-150	
d3-N-MeFOSA	1.2	0.077	7	10-150	R
d5-N-EtFOSA	1.2	0.086	7	10-150	R

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MS
 Run File Name B220810E_005
 Analyzed 08/11/2022 00:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220810B02
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.00	0.23	0.27	115	50-150		375-22-4
PFPeA	0.11 J	0.23	0.36	109	50-150		2706-90-3
HFPO-DA	0.00	0.23	0.25	107	50-150		13252-13-6
PFBS	0.035 J	0.20	0.24	102	50-150		375-73-5
PFHxA	0.11 J	0.23	0.38	116	50-150		307-24-4
4:2 FTS	0.00	0.22	0.23	105	50-150		757124-72-4
PFPeS	0.043 J	0.22	0.27	104	50-150		2706-91-4
PFHpA	0.048 J	0.23	0.29	107	50-150		375-85-9
DONA	0.00	0.22	0.24	112	50-150		919005-14-4
PFHxS	0.54	0.21	0.78	115	50-150		355-46-4
PFOA	0.077 J	0.23	0.32	104	50-150		335-67-1
6:2 FTS	0.11 J	0.22	0.33	104	50-150		27619-97-2
PFHpS	0.00	0.22	0.25	117	50-150		375-92-8
PFNA	0.00	0.23	0.27	118	50-150		375-95-1
PFOSAm	0.11 J	0.23	0.34	102	50-150		754-91-6
PFOS	3.2	0.21	3.2	0	50-150	R	1763-23-1
MeFOSA	0.00	0.23	0.27	119	50-150		31506-32-8
PFDA	0.041 J	0.23	0.28	104	50-150		335-76-2
EtFOSAm	0.00	0.23	0.22	96	50-150		4151-50-2
8:2 FTS	0.051 IJ	0.22	0.25	88	50-150		39108-34-4
9-CI-PF3ON	0.00	0.21	0.23	108	50-150		756426-58-1
PFNS	0.00	0.21	0.25	117	50-150		68259-12-1
PFUnDA	0.00	0.23	0.26	113	50-150		2058-94-8
NMeFOSAA	0.054 J	0.23	0.26	89	50-150		2355-31-9
NEtFOSAA	0.073 J	0.23	0.28	90	50-150		2991-50-6
PFDS	0.086 J	0.22	0.35	118	50-150		335-77-3
PFDOA	0.067 J	0.23	0.28	94	50-150		307-55-1
MeFOSE	0.00	0.23	0.27	116	50-150		24448-09-7
EtFOSE	0.00	0.23	0.21	91	50-150		1691-99-2
11-CI-PF3OUdS	0.00	0.22	0.28	128	50-150		763051-92-9
PFTTrDA	0.00	0.23	0.26	114	50-150		72629-94-8
PFDoS	0.00	0.22	0.31	137	50-150		79780-39-5
PFTDA	0.00	0.23	0.26	114	50-150		376-06-7

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MS
 Run File Name B220810E_005
 Analyzed 08/11/2022 00:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220810B02
 Level

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.80	5.77	2112	
13C4 PFOA	N/A	N/A	7.08	7.07	2420	
13C2 PFDA	N/A	N/A	8.38	8.39	2385	
13C4 PFOS	N/A	N/A	8.86	8.88	363	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.19	4.23	2097	
13C5 PFPeA	N/A	N/A	5.12	5.10	1777	
13C3 PFBS	N/A	N/A	6.04	6.02	316	
13C2 4:2FTS	N/A	N/A	5.54	5.51	205	
13C5 PFHxA	N/A	N/A	5.80	5.78	1572	
13C4 PFHpA	N/A	N/A	6.44	6.42	1853	
13C3 PFHxS	N/A	N/A	7.49	7.47	530	
13C2 6:2FTS	N/A	N/A	6.75	6.73	257	
13C8 PFOA	N/A	N/A	7.08	7.06	2079	
13C9 PFNA	N/A	N/A	7.73	7.71	1845	
13C8 PFOS	N/A	N/A	8.87	8.86	283	
13C2 8:2FTS	N/A	N/A	8.01	8.00	461	
13C6 PFDA	N/A	N/A	8.38	8.38	2101	
d3-MeFOSAA	N/A	N/A	8.24	8.25	1448	
13C8 PFOSA	N/A	N/A	10.39	10.42	1145	
d5-EtFOSAA	N/A	N/A	8.53	8.54	2422	
13C7 PFUdA	N/A	N/A	9.05	9.07	2170	
13C2 PFDoA	N/A	N/A	9.72	9.71	954	
13C2 PFTeDA	N/A	N/A	11.03	11.02	1532	
13C3 HFPO-DA	N/A	N/A	6.06	6.04	1450	
13C2 PFHxDA	N/A	N/A	12.20	12.22	2720	
d7-N-MeFOSE	N/A	N/A	12.42	12.44	47	
d9-N-EtFOSE	N/A	N/A	12.89	12.88	326	
d3-N-MeFOSA	N/A	N/A	12.63	12.65	420	R
d5-N-EtFOSA	N/A	N/A	13.05	13.07	335	R

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MS
 Run File Name B220810E_005
 Analyzed 08/11/2022 00:29
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220810B02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.20	4.23	105	
PFPeA	N/A	N/A	5.12	5.15	215	
HFPO-DA	0.24	0.25	6.07	6.07	472	
PFBS	0.47	0.41	6.05	6.02	89	
PFHxA	0.08	0.08	5.81	5.81	221	
4:2 FTS	0.88	0.86	5.54	5.54	1010	
PFPeS	0.36	0.43	6.79	6.79	118	
PFHpA	0.28	0.31	6.45	6.44	20	
DONA	0.59	0.60	6.68	6.67	894	
PFHxS	0.34	0.39	7.50	7.49	126	
PFOA	0.43	0.37	7.09	7.08	246	
6:2 FTS	0.86	0.77	6.75	6.74	729	
PFHpS	0.39	0.41	8.19	8.20	117	
PFNA	0.15	0.13	7.73	7.73	464	
PFOSAm	N/A	N/A	10.40	10.44	622	
PFOS	0.39	0.41	8.88	8.90	318	R
MeFOSA	0.36	0.63	12.66	12.69	320	
PFDA	0.17	0.18	8.40	8.40	456	
EtFOSAm	0.57	0.60	13.07	13.10	188	
8:2 FTS	1.30	0.88	8.01	8.02	1568	
9-Cl-PF3ON	0.05	0.06	9.37	9.39	1233	
PFNS	0.48	0.45	9.55	9.58	284	
PFUnDA	0.12	0.13	9.06	9.05	507	
NMeFOSAA	0.90	0.79	8.25	8.26	196	
NEtFOSAA	0.68	0.63	8.54	8.55	514	
PFDS	0.35	0.39	10.21	10.19	250	
PFDOA	0.19	0.19	9.73	9.72	415	
MeFOSE	N/A	N/A	12.46	12.45	199	
EtFOSE	0.00	0.00	12.93	12.92	149	
11-Cl-PF3OUdS	0.02	0.02	10.69	10.66	792	
PFTrDA	0.18	0.20	10.39	10.37	360	
PFDoS	0.46	0.49	11.45	11.43	504	
PFTDA	0.21	0.26	11.04	11.02	362	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MSD
 Run File Name B220808A_032
 Analyzed 08/08/2022 18:04
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers
13C2_PFHxA	1.2	1.6	132	50-150	4.4	
13C4_PFOA	1.2	1.5	130	50-150	13.9	
13C2_PFDA	1.2	1.7	147	50-150	9.8	
13C4_PFOS	1.1	1.5	135	50-150	6.3	

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers
13C4_PFBFA	1.2	1.1	97	25-150	6.5	
13C5_PFPeA	1.2	1.2	103	25-150	11.8	
13C3_PFBFS	1.1	1.2	106	25-150	11.4	
13C2_4:2FTS	1.1	1.3	116	25-150	27.9	
13C5_PFHxA	1.2	1.3	114	25-150	14.2	
13C4_PFHpA	1.2	1.1	95	25-150	0.5	
13C3_PFHxS	1.1	1.1	102	25-150	9.6	
13C2_6:2FTS	1.1	1.2	108	25-150	17.7	
13C8_PFOA	1.2	1.2	100	25-150	10.8	
13C9_PFNA	1.2	1.3	108	25-150	19.7	
13C8_PFOS	1.1	1.2	106	25-150	22.1	
13C2_8:2FTS	1.1	1.5	132	25-150	26.5	
13C6_PFDA	1.2	1.4	119	25-150	12.7	
d3-MeFOSAA	1.2	1.4	122	25-150	10.5	
13C8_PFOA	1.2	0.48	41	25-150	42.1	
d5-EtFOSAA	1.2	1.5	125	25-150	13.3	
13C7_PFUdA	1.2	1.6	133	25-150	12.4	
13C2_PFDaA	1.2	1.5	129	25-150	10.9	
13C2_PFTeDA	1.2	1.7	144	25-150	13.1	
13C3_HFPO-DA	1.2	1.2	101	25-150	6.6	
13C2_PFHxDA	1.2	1.6	135	25-150	10.5	
d7-N-MeFOSE	1.2	0.17	15	10-150	82.0	
d9-N-EtFOSE	1.2	0.29	25	10-150	53.8	
d3-N-MeFOSA	1.2	0.031	3	10-150	86.4	R
d5-N-EtFOSA	1.2	0.040	3	10-150	75.3	R

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MSD
 Run File Name B220808A_032
 Analyzed 08/08/2022 18:04
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	0.00	0.23	0.26	112	50-150	2.7		375-22-4
PFPeA	0.11 J	0.23	0.34	97	50-150	8.7		2706-90-3
HFPO-DA	0.00	0.23	0.22	95	50-150	11.6		13252-13-6
PFBS	0.035 J	0.21	0.22	89	50-150	11.5		375-73-5
PFHxA	0.11 J	0.23	0.30	82	50-150	24.0		307-24-4
4:2 FTS	0.00	0.22	0.23	103	50-150	1.4		757124-72-4
PFPeS	0.043 J	0.22	0.26	98	50-150	5.1		2706-91-4
PFHpA	0.048 J	0.23	0.30	107	50-150	0.2		375-85-9
DONA	0.00	0.22	0.20	92	50-150	20.0		919005-14-4
PFHxS	0.54	0.21	0.50	0	50-150	45.7	R	355-46-4
PFOA	0.077 J	0.23	0.29	89	50-150	11.4		335-67-1
6:2 FTS	0.11 J	0.22	0.31	91	50-150	9.5		27619-97-2
PFHpS	0.00	0.22	0.25	111	50-150	4.6		375-92-8
PFNA	0.00	0.23	0.26	110	50-150	6.4		375-95-1
PFOSAm	0.11 J	0.23	0.31	87	50-150	11.4		754-91-6
PFOS	3.2	0.22	2.4	0	50-150	30.2	R	1763-23-1
MeFOSA	0.00	0.23	0.20	87	50-150	30.8		31506-32-8
PFDA	0.041 J	0.23	0.28	103	50-150	1.2		335-76-2
EtFOSAm	0.00	0.23	0.22	95	50-150	0.9		4151-50-2
8:2 FTS	0.051 IJ	0.23	0.25	86	50-150	2.0		39108-34-4
9-CI-PF3ON	0.00	0.22	0.25	113	50-150	4.2		756426-58-1
PFNS	0.00	0.22	0.25	115	50-150	2.1		68259-12-1
PFUnDA	0.00	0.23	0.25	106	50-150	6.7		2058-94-8
NMeFOSAA	0.054 J	0.23	0.28	97	50-150	7.0		2355-31-9
NEtFOSAA	0.073 J	0.23	0.28	87	50-150	2.2		2991-50-6
PFDS	0.086 J	0.23	0.31	101	50-150	11.9		335-77-3
PFDOA	0.067 J	0.23	0.27	86	50-150	7.5		307-55-1
MeFOSE	0.00	0.23	0.32	135	50-150	15.0		24448-09-7
EtFOSE	0.00	0.23	0.32	138	50-150	41.2		1691-99-2
11-CI-PF3OUdS	0.00	0.22	0.27	124	50-150	2.6		763051-92-9
PFTTrDA	0.00	0.23	0.26	112	50-150	1.4		72629-94-8
PFDoS	0.00	0.23	0.28	122	50-150	11.7		79780-39-5
PFTDA	0.00	0.23	0.26	112	50-150	1.3		376-06-7

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MSD
 Run File Name B220808A_032
 Analyzed 08/08/2022 18:04
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.75	5.80	1650	
13C4 PFOA	N/A	N/A	7.03	7.07	1682	
13C2 PFDA	N/A	N/A	8.33	8.39	1792	
13C4 PFOS	N/A	N/A	8.81	8.81	377	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.34	4.30	2645	
13C5 PFPeA	N/A	N/A	5.12	5.15	2776	
13C3 PFBS	N/A	N/A	6.00	6.05	384	
13C2 4:2FTS	N/A	N/A	5.49	5.54	236	
13C5 PFHxA	N/A	N/A	5.75	5.80	1784	
13C4 PFHpA	N/A	N/A	6.39	6.43	1914	
13C3 PFHxS	N/A	N/A	7.44	7.49	709	
13C2 6:2FTS	N/A	N/A	6.69	6.74	315	
13C8 PFOA	N/A	N/A	7.03	7.07	1870	
13C9 PFNA	N/A	N/A	7.67	7.72	1921	
13C8 PFOS	N/A	N/A	8.81	8.81	307	
13C2 8:2FTS	N/A	N/A	7.96	8.01	557	
13C6 PFDA	N/A	N/A	8.34	8.39	1487	
d3-MeFOSAA	N/A	N/A	8.20	8.25	1469	
13C8 PFOSA	N/A	N/A	10.60	10.61	1452	
d5-EtFOSAA	N/A	N/A	8.49	8.54	1679	
13C7 PFUdA	N/A	N/A	9.00	9.07	1976	
13C2 PFDoA	N/A	N/A	9.67	9.74	1242	
13C2 PFTeDA	N/A	N/A	10.97	11.07	1421	
13C3 HFPO-DA	N/A	N/A	6.01	6.06	1667	
13C2 PFHxDA	N/A	N/A	12.14	12.11	1781	
d7-N-MeFOSE	N/A	N/A	12.37	12.45	37	
d9-N-EtFOSE	N/A	N/A	12.85	12.92	245	
d3-N-MeFOSA	N/A	N/A	12.59	12.66	259	R
d5-N-EtFOSA	N/A	N/A	13.02	13.08	219	R

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10618249009-MSD
 Run File Name B220808A_032
 Analyzed 08/08/2022 18:04
 Injected By NH

Instrument ID 10LCMS02
 Column ID 118AB10133
 Ical ID 220803A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.34	4.31	119	
PFPeA	N/A	N/A	5.13	5.15	267	
HFPO-DA	0.29	0.28	6.02	6.07	506	
PFBS	0.46	0.45	6.01	6.06	122	
PFHxA	0.08	0.08	5.76	5.81	197	
4:2 FTS	0.88	0.81	5.49	5.54	1662	
PFPeS	0.41	0.47	6.74	6.79	179	
PFHpA	0.29	0.34	6.39	6.44	22	
DONA	0.60	0.62	6.63	6.67	1385	
PFHxS	0.37	0.38	7.44	7.49	178	R
PFOA	0.36	0.38	7.03	7.08	221	
6:2 FTS	0.85	0.92	6.70	6.74	500	
PFHpS	0.38	0.44	8.14	8.20	127	
PFNA	0.14	0.15	7.68	7.73	436	
PFOSAm	N/A	N/A	10.61	10.61	415	
PFOS	0.41	0.36	8.82	8.90	350	R
MeFOSA	0.51	0.56	12.61	12.69	16086	
PFDA	0.19	0.17	8.34	8.40	81	
EtFOSAm	0.61	0.56	13.05	13.10	129	
8:2 FTS	1.00	0.88	7.96	8.02	1114	
9-CI-PF3ON	0.05	0.06	9.31	9.39	1218	
PFNS	0.53	0.52	9.49	9.58	261	
PFUnDA	0.13	0.14	9.01	9.08	554	
NMeFOSAA	0.84	0.85	8.21	8.26	2647	
NEtFOSAA	0.65	0.71	8.50	8.55	429	
PFDS	0.36	0.38	10.14	10.14	268	
PFDOA	0.19	0.18	9.67	9.75	688	
MeFOSE	N/A	N/A	12.41	12.49	87	
EtFOSE	0.00	0.00	12.89	12.96	183	
11-CI-PF3OUdS	0.02	0.02	10.61	10.72	1222	
PFTrDA	0.13	0.15	10.33	10.42	428	
PFDoS	0.48	0.49	11.38	11.48	564	
PFTDA	0.28	0.26	10.97	11.07	606	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL REPORT

AECOM
 TORY SCHULTZ
 1555 N RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Project Name: MILL POND
 Project Phase:
 Contract #: 3498
 Project #: 60686763.1
 Folder #: 170983
 Purchase Order #: 146241

Page 1 of 47
 Arrival Temperature: 2.5
 Report Date: 8/9/2022
 Date Received: 7/22/2022
 Reprint Date: 9/6/2022

CT LAB Sample#: 1166078 Sample Description: SB2_(0-2) Sampled: 7/20/2022 12:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	84.9	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.44	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	10.5	mg/kg	2.1 *	12	1		7/26/2022 08:30	7/26/2022 11:08	HLB	EPA 350.1
Phosphorus	143	mg/kg	31	110	1	M,Y	7/27/2022 08:30	7/28/2022 13:50	RLB	EPA 365.4
Nitrogen Kjeldahl	172	mg/kg	55 *	180	1	M,Y	7/27/2022 08:30	7/28/2022 11:08	RLB	EPA 351.2
Nitrate Nitrogen	<0.94	mg/kg	0.94	3.1	1		8/1/2022 10:30	8/1/2022 11:48	TMG	EPA 9056A
Total Organic Carbon	32000	mg/kg	190	590	1			7/29/2022 13:12	TMG	L-Kahn/9060A
Metals Results										
Arsenic	2.2	mg/kg	0.22	1.2	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Barium	8.6	mg/kg	0.060	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Cadmium	0.15	mg/kg	0.031 *	0.29	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Chromium	5.6	mg/kg	0.082	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Copper	8.2	mg/kg	0.15	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Iron	6200	mg/kg	3.5	17	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Lead	6.9	mg/kg	0.091	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166078

Sample Description: SB2_(0-2)

Sampled: 7/20/2022 12:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Manganese	350	mg/kg	0.081	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Nickel	5.1	mg/kg	0.070	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Selenium	<0.29	mg/kg	0.29	1.2	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Zinc	33	mg/kg	0.077	0.58	1		7/25/2022 12:15	7/26/2022 18:26	NAH	EPA 6010C
Mercury	0.0061	mg/kg	0.0033 *	0.010	1		7/27/2022 13:30	7/29/2022 10:28	MDS	EPA 7471B
Organic Results										
4,4'-DDE	3.25	ug/kg	0.58	2.3	1	M	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
4,4'-DDT	<2.0	ug/kg	2.0	7.0	1		7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
Aldrin	<1.5	ug/kg	1.5	4.6	1		7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
alpha-Chlordane	<1.0	ug/kg	1.0	4.6	1	M	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
Chlordane (Technical)	<22	ug/kg	22	70	1	M,Y	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
Dieldrin	<0.93	ug/kg	0.93	4.6	1	M	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
Endrin	<1.5	ug/kg	1.5	7.0	1	M	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
gamma-Chlordane	<1.0	ug/kg	1.0	4.6	1	M	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
Heptachlor	4.87	ug/kg	1.7 *	7.0	1	Y,P	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
Lindane	<19	ug/kg	19	70	10		7/26/2022 09:00	8/3/2022 12:17	AJZ	EPA 8081B
Toxaphene	<23	ug/kg	23	70	1	M,Y	7/26/2022 09:00	8/2/2022 17:28	AJZ	EPA 8081B
1-Methylnaphthalene	3.64	ug/kg	1.4 *	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
2-Methylnaphthalene	4.24	ug/kg	1.2 *	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Acenaphthene	25.6	ug/kg	1.2	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Acenaphthylene	19.8	ug/kg	1.2	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Anthracene	62.7	ug/kg	1.3	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	227	ug/kg	1.2	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Benzo(a)pyrene	216	ug/kg	1.1	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166078

Sample Description: SB2_(0-2)

Sampled: 7/20/2022 12:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(b)fluoranthene	304	ug/kg	5.9	29	5		7/26/2022 09:00	8/1/2022 14:33	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	135	ug/kg	1.4	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	93.3	ug/kg	1.2	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Chrysene	229	ug/kg	5.9	29	5		7/26/2022 09:00	8/1/2022 14:33	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	36.6	ug/kg	1.4	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Fluoranthene	478	ug/kg	5.9	29	5		7/26/2022 09:00	8/1/2022 14:33	JJY	EPA 8270D-SIM
Fluorene	30.1	ug/kg	1.1	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	163	ug/kg	1.4	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Naphthalene	3.54	ug/kg	1.2 *	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Phenanthrene	179	ug/kg	0.82	5.8	1		7/26/2022 09:00	7/29/2022 14:53	JJY	EPA 8270D-SIM
Pyrene	388	ug/kg	5.3	29	5		7/26/2022 09:00	8/1/2022 14:33	JJY	EPA 8270D-SIM
Aroclor-1016	<20	ug/kg	20	59	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
Aroclor-1221	<33	ug/kg	33	93	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
Aroclor-1232	<13	ug/kg	13	47	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
Aroclor-1242	<12	ug/kg	12	47	1		7/26/2022 09:00	8/4/2022 01:50	AJZ	EPA 8082A
Aroclor-1248	<16	ug/kg	16	49	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
Aroclor-1254	<21	ug/kg	21	63	1		7/26/2022 09:00	8/4/2022 01:50	AJZ	EPA 8082A
Aroclor-1260	<13	ug/kg	13	47	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
Aroclor-1262	<12	ug/kg	12	47	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
Aroclor-1268	<20	ug/kg	20	59	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A
PCB, Total	<12	ug/kg	12	47	1		7/26/2022 09:00	8/2/2022 18:54	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1		8/9/2022 00:00		SUB	
Oil & Grease	attached				1		8/9/2022 00:00		SUB	1664

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166078 Sample Description: SB2_(0-2) Sampled: 7/20/2022 12:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166095 Sample Description: SB2_(2-4) Sampled: 7/20/2022 12:35

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	89.7	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.41	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	<1.9	mg/kg	1.9	11	1		7/26/2022 08:30	7/26/2022 11:16	HLB	EPA 350.1
Phosphorus	171	mg/kg	32	110	1		7/27/2022 08:30	7/28/2022 13:58	RLB	EPA 365.4
Nitrogen Kjeldahl	67.1	mg/kg	56 *	190	1		7/27/2022 08:30	7/28/2022 11:15	RLB	EPA 351.2
Nitrate Nitrogen	1.24	mg/kg	0.89 *	2.9	1		8/1/2022 10:30	8/1/2022 12:02	TMG	EPA 9056A
Total Organic Carbon	38500	mg/kg	180	560	1			7/29/2022 13:31	TMG	L-Kahn/9060A
Metals Results										
Arsenic	2.7	mg/kg	0.21	1.1	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Barium	8.0	mg/kg	0.057	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Cadmium	0.12	mg/kg	0.029 *	0.27	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Chromium	5.7	mg/kg	0.077	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Copper	9.4	mg/kg	0.14	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Iron	7100	mg/kg	3.3	16	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Lead	4.9	mg/kg	0.085	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Manganese	410	mg/kg	0.076	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Nickel	6.6	mg/kg	0.065	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Selenium	<0.27	mg/kg	0.27	1.1	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166095 Sample Description: SB2_(2-4) Sampled: 7/20/2022 12:35

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Zinc	26	mg/kg	0.072	0.54	1		7/25/2022 12:15	7/26/2022 18:34	NAH	EPA 6010C
Mercury	0.0072	mg/kg	0.0033 *	0.010	1		7/27/2022 13:30	7/29/2022 10:31	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	18.8	ug/kg	1.3	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
2-Methylnaphthalene	20.3	ug/kg	1.1	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
Acenaphthene	84.2	ug/kg	1.1	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
Acenaphthylene	15.8	ug/kg	1.1	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
Anthracene	381	ug/kg	25	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Benzo(a)anthracene	973	ug/kg	22	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Benzo(a)pyrene	898	ug/kg	20	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	1120	ug/kg	22	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	460	ug/kg	27	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	360	ug/kg	22	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Chrysene	867	ug/kg	22	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	98.1	ug/kg	1.3	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
Fluoranthene	2430	ug/kg	22	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Fluorene	138	ug/kg	1.0	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	541	ug/kg	27	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Naphthalene	14.2	ug/kg	1.1	5.5	1		7/26/2022 09:00	7/29/2022 15:13	JJY	EPA 8270D-SIM
Phenanthrene	1430	ug/kg	16	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Pyrene	1830	ug/kg	20	110	20		7/26/2022 09:00	8/1/2022 14:52	JJY	EPA 8270D-SIM
Aroclor-1016	<19	ug/kg	19	56	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A
Aroclor-1221	<31	ug/kg	31	88	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A
Aroclor-1232	<12	ug/kg	12	44	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166095 Sample Description: SB2_(2-4) Sampled: 7/20/2022 12:35

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1242	<11	ug/kg	11	44	1		7/26/2022 09:00	8/4/2022 02:12	AJZ	EPA 8082A
Aroclor-1248	<15	ug/kg	15	46	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A
Aroclor-1254	<20	ug/kg	20	59	1		7/26/2022 09:00	8/4/2022 02:12	AJZ	EPA 8082A
Aroclor-1260	<12	ug/kg	12	44	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A
Aroclor-1262	<11	ug/kg	11	44	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A
Aroclor-1268	<19	ug/kg	19	56	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A
PCB, Total	<11	ug/kg	11	44	1		7/26/2022 09:00	8/2/2022 19:16	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166096 Sample Description: SB2_(2-4) DUP Sampled: 7/20/2022 12:40

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	84.4	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.69	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	<2.1	mg/kg	2.1	12	1		7/26/2022 08:30	7/26/2022 11:17	HLB	EPA 350.1
Phosphorus	265	mg/kg	30	100	1		7/27/2022 08:30	7/28/2022 13:59	RLB	EPA 365.4
Nitrogen Kjeldahl	<52	mg/kg	52	170	1		7/27/2022 08:30	7/28/2022 11:16	RLB	EPA 351.2
Nitrate Nitrogen	<0.95	mg/kg	0.95	3.1	1		8/1/2022 10:30	8/1/2022 12:16	TMG	EPA 9056A
Total Organic Carbon	49600	mg/kg	190	590	1			7/29/2022 09:36	TMG	L-Kahn/9060A

Metals Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166096

Sample Description: SB2_(2-4) DUP

Sampled: 7/20/2022 12:40

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	2.8	mg/kg	0.23	1.2	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Barium	18	mg/kg	0.064	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Cadmium	0.17	mg/kg	0.033 *	0.31	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Chromium	5.1	mg/kg	0.087	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Copper	18	mg/kg	0.16	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Iron	7300	mg/kg	3.7	18	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Lead	5.2	mg/kg	0.096	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Manganese	350	mg/kg	0.086	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Nickel	6.0	mg/kg	0.074	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Selenium	<0.31	mg/kg	0.31	1.2	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Zinc	30	mg/kg	0.081	0.61	1		7/25/2022 12:15	7/26/2022 18:42	NAH	EPA 6010C
Mercury	0.012	mg/kg	0.0034	0.011	1		7/27/2022 13:30	7/29/2022 10:34	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	3.48	ug/kg	1.4 *	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
2-Methylnaphthalene	4.62	ug/kg	1.2 *	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Acenaphthene	22.7	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Acenaphthylene	12.6	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Anthracene	151	ug/kg	1.3	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Benzo(a)anthracene	453	ug/kg	5.9	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Benzo(a)pyrene	416	ug/kg	5.3	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	525	ug/kg	5.9	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	298	ug/kg	7.1	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	188	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Chrysene	479	ug/kg	5.9	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	88.9	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166096 Sample Description: SB2_(2-4) DUP Sampled: 7/20/2022 12:40

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluoranthene	868	ug/kg	5.9	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Fluorene	32.0	ug/kg	1.1	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	353	ug/kg	7.1	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Naphthalene	4.17	ug/kg	1.2 *	5.7	1		7/26/2022 09:00	7/29/2022 15:33	JJY	EPA 8270D-SIM
Phenanthrene	370	ug/kg	4.1	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Pyrene	802	ug/kg	5.3	28	5		7/26/2022 09:00	8/1/2022 15:12	JJY	EPA 8270D-SIM
Aroclor-1016	<20	ug/kg	20	59	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
Aroclor-1221	<32	ug/kg	32	92	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
Aroclor-1232	<13	ug/kg	13	46	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
Aroclor-1242	<12	ug/kg	12	46	1		7/26/2022 09:00	8/4/2022 02:33	AJZ	EPA 8082A
Aroclor-1248	<16	ug/kg	16	49	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
Aroclor-1254	<21	ug/kg	21	62	1		7/26/2022 09:00	8/4/2022 02:33	AJZ	EPA 8082A
Aroclor-1260	<13	ug/kg	13	46	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
Aroclor-1262	<12	ug/kg	12	46	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
Aroclor-1268	<20	ug/kg	20	59	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A
PCB, Total	<12	ug/kg	12	46	1		7/26/2022 09:00	8/2/2022 19:37	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166097 Sample Description: SB2_(4-6) Sampled: 7/20/2022 12:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166097

Sample Description: SB2_(4-6)

Sampled: 7/20/2022 12:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	83.2	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.58	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	5.8	mg/kg	2.1 *	12	1		7/26/2022 08:30	7/26/2022 11:18	HLB	EPA 350.1
Phosphorus	235	mg/kg	29	99	1		7/27/2022 08:30	7/28/2022 14:00	RLB	EPA 365.4
Nitrogen Kjeldahl	135	mg/kg	50 *	170	1		7/27/2022 08:30	7/28/2022 11:17	RLB	EPA 351.2
Nitrate Nitrogen	<0.96	mg/kg	0.96	3.1	1		8/1/2022 10:30	8/1/2022 12:30	TMG	EPA 9056A
Total Organic Carbon	30800	mg/kg	190	600	1			7/29/2022 13:37	TMG	L-Kahn/9060A
Metals Results										
Arsenic	2.0	mg/kg	0.22	1.2	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Barium	7.1	mg/kg	0.061	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Cadmium	0.13	mg/kg	0.032 *	0.29	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Chromium	4.5	mg/kg	0.083	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Copper	7.6	mg/kg	0.15	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Iron	5700	mg/kg	3.5	18	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Lead	5.1	mg/kg	0.091	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Manganese	520	mg/kg	0.082	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Nickel	4.7	mg/kg	0.070	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Selenium	<0.29	mg/kg	0.29	1.2	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Zinc	30	mg/kg	0.077	0.59	1		7/25/2022 12:15	7/26/2022 18:50	NAH	EPA 6010C
Mercury	0.0055	mg/kg	0.0032 *	0.0100	1		7/27/2022 13:30	7/29/2022 10:37	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	3.60	ug/kg	1.4 *	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
2-Methylnaphthalene	4.15	ug/kg	1.2 *	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166097

Sample Description: SB2_(4-6)

Sampled: 7/20/2022 12:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acenaphthene	30.2	ug/kg	1.2	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Acenaphthylene	13.5	ug/kg	1.2	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Anthracene	71.6	ug/kg	1.3	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	238	ug/kg	6.0	30	5		7/26/2022 09:00	8/1/2022 15:33	JJY	EPA 8270D-SIM
Benzo(a)pyrene	240	ug/kg	1.1	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	333	ug/kg	6.0	30	5		7/26/2022 09:00	8/1/2022 15:33	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	149	ug/kg	1.4	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	95.1	ug/kg	1.2	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Chrysene	259	ug/kg	6.0	30	5		7/26/2022 09:00	8/1/2022 15:33	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	41.3	ug/kg	1.4	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Fluoranthene	656	ug/kg	6.0	30	5		7/26/2022 09:00	8/1/2022 15:33	JJY	EPA 8270D-SIM
Fluorene	36.7	ug/kg	1.1	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	185	ug/kg	1.4	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Naphthalene	5.13	ug/kg	1.2 *	6.0	1		7/26/2022 09:00	7/29/2022 15:53	JJY	EPA 8270D-SIM
Phenanthrene	330	ug/kg	4.2	30	5		7/26/2022 09:00	8/1/2022 15:33	JJY	EPA 8270D-SIM
Pyrene	516	ug/kg	5.4	30	5		7/26/2022 09:00	8/1/2022 15:33	JJY	EPA 8270D-SIM
Aroclor-1016	<20	ug/kg	20	61	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
Aroclor-1221	<34	ug/kg	34	96	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
Aroclor-1232	<13	ug/kg	13	48	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
Aroclor-1242	<12	ug/kg	12	48	1		7/26/2022 09:00	8/4/2022 03:17	AJZ	EPA 8082A
Aroclor-1248	<17	ug/kg	17	51	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
Aroclor-1254	<22	ug/kg	22	65	1		7/26/2022 09:00	8/4/2022 03:17	AJZ	EPA 8082A
Aroclor-1260	<13	ug/kg	13	48	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
Aroclor-1262	<12	ug/kg	12	48	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
Aroclor-1268	<20	ug/kg	20	61	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166097 Sample Description: SB2_(4-6) Sampled: 7/20/2022 12:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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PCB, Total	<12	ug/kg	12	48	1		7/26/2022 09:00	8/2/2022 19:59	AJZ	EPA 8082A
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Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166098 Sample Description: SB2_(6-8) Sampled: 7/20/2022 12:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Inorganic Results

Solids, Percent	74.3	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.26	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	104	mg/kg	2.4	13	1		7/26/2022 08:30	7/26/2022 11:19	HLB	EPA 350.1
Phosphorus	435	mg/kg	32	110	1		7/27/2022 08:30	7/28/2022 14:01	RLB	EPA 365.4
Nitrogen Kjeldahl	948	mg/kg	56	190	1		7/27/2022 08:30	7/28/2022 11:19	RLB	EPA 351.2
Nitrate Nitrogen	<1.1	mg/kg	1.1	3.5	1		8/1/2022 10:30	8/1/2022 12:45	TMG	EPA 9056A
Total Organic Carbon	29500	mg/kg	220	670	1			7/29/2022 09:50	TMG	L-Kahn/9060A

Metals Results

Arsenic	7.0	mg/kg	0.26	1.4	1		7/25/2022 12:15	7/26/2022 18:58	NAH	EPA 6010C
Barium	50	mg/kg	0.073	0.70	1		7/25/2022 12:15	7/26/2022 18:58	NAH	EPA 6010C
Cadmium	0.53	mg/kg	0.038	0.35	1		7/25/2022 12:15	7/26/2022 18:58	NAH	EPA 6010C
Chromium	43	mg/kg	0.099	0.70	1		7/25/2022 12:15	7/26/2022 18:58	NAH	EPA 6010C
Copper	39	mg/kg	0.18	0.70	1		7/25/2022 12:15	7/26/2022 18:58	NAH	EPA 6010C
Iron	17000	mg/kg	4.2	21	1		7/25/2022 12:15	7/26/2022 18:58	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166098

Sample Description: SB2_(6-8)

Sampled: 7/20/2022 12:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Lead	68	mg/kg	0.11	0.70	1		7/25/2022 12:15	7/26/2022	18:58	NAH EPA 6010C
Manganese	530	mg/kg	0.098	0.70	1		7/25/2022 12:15	7/26/2022	18:58	NAH EPA 6010C
Nickel	18	mg/kg	0.084	0.70	1		7/25/2022 12:15	7/26/2022	18:58	NAH EPA 6010C
Selenium	<0.35	mg/kg	0.35	1.4	1		7/25/2022 12:15	7/26/2022	18:58	NAH EPA 6010C
Zinc	92	mg/kg	0.092	0.70	1		7/25/2022 12:15	7/26/2022	18:58	NAH EPA 6010C
Mercury	0.035	mg/kg	0.0038	0.012	1		7/27/2022 13:30	7/29/2022	10:41	MDS EPA 7471B
Organic Results										
1-Methylnaphthalene	80.5	ug/kg	16	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
2-Methylnaphthalene	133	ug/kg	13	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Acenaphthene	615	ug/kg	13	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Acenaphthylene	325	ug/kg	13	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Anthracene	1830	ug/kg	15	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Benzo(a)anthracene	4900	ug/kg	130	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Benzo(a)pyrene	4900	ug/kg	120	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Benzo(b)fluoranthene	8250	ug/kg	130	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Benzo(g,h,i)perylene	2990	ug/kg	160	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Benzo(k)fluoranthene	2220	ug/kg	13	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Chrysene	6210	ug/kg	130	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Dibenzo(a,h)anthracene	703	ug/kg	16	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Fluoranthene	13600	ug/kg	130	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Fluorene	1100	ug/kg	12	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	3600	ug/kg	160	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Naphthalene	136	ug/kg	13	63	10		7/26/2022 09:00	7/29/2022	16:13	JJY EPA 8270D-SIM
Phenanthrene	8420	ug/kg	94	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM
Pyrene	10400	ug/kg	120	630	100		7/26/2022 09:00	8/1/2022	15:53	JJY EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166098 Sample Description: SB2_(6-8) Sampled: 7/20/2022 12:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1016	<23	ug/kg	23	68	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
Aroclor-1221	<38	ug/kg	38	110	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
Aroclor-1232	<15	ug/kg	15	54	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
Aroclor-1242	76.4	ug/kg	13	54	1		7/26/2022 09:00	8/4/2022 03:38	AJZ	EPA 8082A
Aroclor-1248	<19	ug/kg	19	56	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
Aroclor-1254	172	ug/kg	24	72	1	P	7/26/2022 09:00	8/4/2022 03:38	AJZ	EPA 8082A
Aroclor-1260	89.8	ug/kg	15	54	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
Aroclor-1262	<13	ug/kg	13	54	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
Aroclor-1268	<23	ug/kg	23	68	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A
PCB, Total	338	ug/kg	13	54	1		7/26/2022 09:00	8/2/2022 20:43	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166099 Sample Description: SB4_(0-2) Sampled: 7/20/2022 13:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	70.7	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.36	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	<2.4	mg/kg	2.4	13	1		7/26/2022 08:30	7/26/2022 11:20	HLB	EPA 350.1
Phosphorus	518	mg/kg	34	120	1		7/27/2022 08:30	7/28/2022 14:03	RLB	EPA 365.4
Nitrogen Kjeldahl	1390	mg/kg	60	200	1		7/27/2022 08:30	7/28/2022 11:20	RLB	EPA 351.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166099

Sample Description: SB4_(0-2)

Sampled: 7/20/2022 13:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrate Nitrogen	2.26	mg/kg	1.1 *	3.7	1		8/1/2022 10:30	8/1/2022 12:59	TMG	EPA 9056A
Total Organic Carbon	29900	mg/kg	230	710	1			7/29/2022 09:56	TMG	L-Kahn/9060A
Metals Results										
Arsenic	3.2	mg/kg	0.27	1.4	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Barium	28	mg/kg	0.074	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Cadmium	0.25	mg/kg	0.039 *	0.36	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Chromium	12	mg/kg	0.10	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Copper	19	mg/kg	0.19	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Iron	9600	mg/kg	4.3	21	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Lead	14	mg/kg	0.11	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Manganese	410	mg/kg	0.10	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Nickel	9.3	mg/kg	0.086	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Selenium	<0.36	mg/kg	0.36	1.4	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Zinc	70	mg/kg	0.094	0.71	1		7/25/2022 12:15	7/26/2022 19:06	NAH	EPA 6010C
Mercury	0.022	mg/kg	0.0041	0.013	1		7/27/2022 13:30	7/29/2022 10:44	MDS	EPA 7471B
Organic Results										
4,4'-DDE	6.72	ug/kg	0.69	2.7	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
4,4'-DDT	7.68	ug/kg	2.3 *	8.2	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
Aldrin	<1.8	ug/kg	1.8	5.5	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
alpha-Chlordane	<1.2	ug/kg	1.2	5.5	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
Chlordane (Technical)	<26	ug/kg	26	82	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
Dieldrin	<1.1	ug/kg	1.1	5.5	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
Endrin	<1.8	ug/kg	1.8	8.2	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B
gamma-Chlordane	<1.2	ug/kg	1.2	5.5	1		7/26/2022 09:00	8/2/2022 16:06	AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166099

Sample Description: SB4_(0-2)

Sampled: 7/20/2022 13:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method	
Heptachlor	<2.1	ug/kg	2.1	8.2	1		7/26/2022 09:00	8/2/2022	16:06	AJZ	EPA 8081B
Lindane	4.52	ug/kg	2.2 *	8.2	1	P	7/26/2022 09:00	8/2/2022	16:06	AJZ	EPA 8081B
Toxaphene	<27	ug/kg	27	82	1		7/26/2022 09:00	8/2/2022	16:06	AJZ	EPA 8081B
1-Methylnaphthalene	<17	ug/kg	17	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
2-Methylnaphthalene	<14	ug/kg	14	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Acenaphthene	40.4	ug/kg	14 *	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Acenaphthylene	48.3	ug/kg	14 *	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Anthracene	169	ug/kg	16	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Benzo(a)anthracene	902	ug/kg	14	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Benzo(a)pyrene	974	ug/kg	13	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	1390	ug/kg	14	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	670	ug/kg	17	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	422	ug/kg	14	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Chrysene	1010	ug/kg	14	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	134	ug/kg	17	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Fluoranthene	2000	ug/kg	14	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Fluorene	59.4	ug/kg	13 *	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	788	ug/kg	17	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Naphthalene	14.8	ug/kg	14 *	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Phenanthrene	715	ug/kg	9.9	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Pyrene	1520	ug/kg	13	71	10		7/26/2022 09:00	7/29/2022	16:33	JJY	EPA 8270D-SIM
Aroclor-1016	<24	ug/kg	24	71	1		7/26/2022 09:00	8/2/2022	21:04	AJZ	EPA 8082A
Aroclor-1221	<39	ug/kg	39	110	1		7/26/2022 09:00	8/2/2022	21:04	AJZ	EPA 8082A
Aroclor-1232	<15	ug/kg	15	55	1		7/26/2022 09:00	8/2/2022	21:04	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166099 Sample Description: SB4_(0-2) Sampled: 7/20/2022 13:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1242	<14	ug/kg	14	55	1		7/26/2022 09:00	8/4/2022 04:00	AJZ	EPA 8082A
Aroclor-1248	<19	ug/kg	19	58	1		7/26/2022 09:00	8/2/2022 21:04	AJZ	EPA 8082A
Aroclor-1254	49.9	ug/kg	25 *	75	1		7/26/2022 09:00	8/4/2022 04:00	AJZ	EPA 8082A
Aroclor-1260	34.7	ug/kg	15 *	55	1		7/26/2022 09:00	8/2/2022 21:04	AJZ	EPA 8082A
Aroclor-1262	<14	ug/kg	14	55	1		7/26/2022 09:00	8/2/2022 21:04	AJZ	EPA 8082A
Aroclor-1268	<24	ug/kg	24	71	1		7/26/2022 09:00	8/2/2022 21:04	AJZ	EPA 8082A
PCB, Total	84.6	ug/kg	14	55	1		7/26/2022 09:00	8/2/2022 21:04	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166100 Sample Description: SB4_(2-4) Sampled: 7/20/2022 13:20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Solids, Percent	79.5	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.31	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	4.6	mg/kg	2.2 *	12	1		7/26/2022 08:30	7/26/2022 11:22	HLB	EPA 350.1
Phosphorus	410	mg/kg	32	110	1	M,Y	7/27/2022 08:30	7/28/2022 14:04	RLB	EPA 365.4
Nitrogen Kjeldahl	346	mg/kg	57	190	1	M	7/27/2022 08:30	7/28/2022 11:21	RLB	EPA 351.2
Nitrate Nitrogen	1.44	mg/kg	1.0 *	3.3	1		8/1/2022 10:30	8/1/2022 13:13	TMG	EPA 9056A
Total Organic Carbon	48500	mg/kg	200	630	1			7/29/2022 09:17	TMG	L-Kahn/9060A

Metals Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166100

Sample Description: SB4_(2-4)

Sampled: 7/20/2022 13:20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	2.6	mg/kg	0.23	1.2	1		7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Barium	10	mg/kg	0.064	0.61	1	Y,M	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Cadmium	0.18	mg/kg	0.033 *	0.31	1		7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Chromium	6.1	mg/kg	0.087	0.61	1	M	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Copper	13	mg/kg	0.16	0.61	1	M	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Iron	9000	mg/kg	3.7	18	1	M	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Lead	5.9	mg/kg	0.095	0.61	1	M	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Manganese	560	mg/kg	0.085	0.61	1	M	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Nickel	6.6	mg/kg	0.073	0.61	1		7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Selenium	<0.31	mg/kg	0.31	1.2	1		7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Zinc	34	mg/kg	0.081	0.61	1	Y	7/25/2022 12:15	7/26/2022 19:14	NAH	EPA 6010C
Mercury	0.010	mg/kg	0.0035 *	0.011	1		7/27/2022 13:30	7/29/2022 10:47	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	<15	ug/kg	15	61	10		7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
2-Methylnaphthalene	<13	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Acenaphthene	90.7	ug/kg	13	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Acenaphthylene	54.1	ug/kg	13 *	61	10		7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Anthracene	650	ug/kg	14	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	1470	ug/kg	13	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Benzo(a)pyrene	1140	ug/kg	11	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	1390	ug/kg	13	61	10	M,Y	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	572	ug/kg	15	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	476	ug/kg	13	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Chrysene	1290	ug/kg	13	61	10	M,Y	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	142	ug/kg	15	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166100 Sample Description: SB4_(2-4) Sampled: 7/20/2022 13:20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluoranthene	3450	ug/kg	25	120	20	M	7/26/2022 09:00	8/1/2022 16:13	JJY	EPA 8270D-SIM
Fluorene	183	ug/kg	11	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	694	ug/kg	15	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Naphthalene	<13	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Phenanthrene	1540	ug/kg	8.8	61	10	M	7/26/2022 09:00	7/29/2022 16:53	JJY	EPA 8270D-SIM
Pyrene	2590	ug/kg	23	120	20	M	7/26/2022 09:00	8/1/2022 16:13	JJY	EPA 8270D-SIM
Aroclor-1016	<21	ug/kg	21	64	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
Aroclor-1221	<35	ug/kg	35	100	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
Aroclor-1232	<14	ug/kg	14	50	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
Aroclor-1242	<12	ug/kg	12	50	1		7/26/2022 09:00	8/4/2022 10:31	AJZ	EPA 8082A
Aroclor-1248	<17	ug/kg	17	52	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
Aroclor-1254	<22	ug/kg	22	67	1		7/26/2022 09:00	8/4/2022 10:31	AJZ	EPA 8082A
Aroclor-1260	<14	ug/kg	14	50	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
Aroclor-1262	<12	ug/kg	12	50	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
Aroclor-1268	<21	ug/kg	21	64	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A
PCB, Total	<12	ug/kg	12	50	1		7/26/2022 09:00	8/3/2022 04:19	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166101 Sample Description: SB4_(4-6) Sampled: 7/20/2022 13:25

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166101 Sample Description: SB4_(4-6)

Sampled: 7/20/2022 13:25

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	73.4	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.30	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	30.9	mg/kg	2.4	13	1		7/26/2022 08:30	7/26/2022 11:29	HLB	EPA 350.1
Phosphorus	326	mg/kg	38	130	1		7/27/2022 08:30	7/28/2022 14:11	RLB	EPA 365.4
Nitrogen Kjeldahl	658	mg/kg	67	220	1		7/27/2022 08:30	7/28/2022 11:28	RLB	EPA 351.2
Nitrate Nitrogen	<1.1	mg/kg	1.1	3.5	1		8/1/2022 10:30	8/1/2022 14:39	TMG	EPA 9056A
Total Organic Carbon	63100	mg/kg	220	680	1			7/29/2022 13:43	TMG	L-Kahn/9060A
Metals Results										
Arsenic	5.2	mg/kg	0.26	1.4	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Barium	34	mg/kg	0.072	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Cadmium	0.37	mg/kg	0.037	0.35	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Chromium	29	mg/kg	0.098	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Copper	29	mg/kg	0.18	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Iron	13000	mg/kg	4.1	21	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Lead	54	mg/kg	0.11	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Manganese	400	mg/kg	0.097	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Nickel	12	mg/kg	0.083	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Selenium	<0.35	mg/kg	0.35	1.4	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Zinc	80	mg/kg	0.091	0.69	1		7/25/2022 12:15	7/26/2022 20:20	NAH	EPA 6010C
Mercury	0.035	mg/kg	0.0039	0.012	1		7/27/2022 13:30	7/29/2022 11:00	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	12.6	ug/kg	1.6	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
2-Methylnaphthalene	19.4	ug/kg	1.4	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166101 Sample Description: SB4_(4-6)

Sampled: 7/20/2022 13:25

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acenaphthene	65.7	ug/kg	1.4	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Acenaphthylene	43.5	ug/kg	1.4	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Anthracene	154	ug/kg	1.5	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	369	ug/kg	6.8	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Benzo(a)pyrene	342	ug/kg	6.1	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	447	ug/kg	6.8	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	185	ug/kg	1.6	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	144	ug/kg	1.4	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Chrysene	362	ug/kg	6.8	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	46.8	ug/kg	1.6	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Fluoranthene	909	ug/kg	6.8	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Fluorene	75.7	ug/kg	1.2	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	243	ug/kg	1.6	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Naphthalene	9.55	ug/kg	1.4	6.6	1		7/26/2022 09:00	7/29/2022 17:53	JJY	EPA 8270D-SIM
Phenanthrene	540	ug/kg	4.8	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Pyrene	690	ug/kg	6.1	33	5		7/26/2022 09:00	8/1/2022 16:33	JJY	EPA 8270D-SIM
Aroclor-1016	<23	ug/kg	23	68	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
Aroclor-1221	<37	ug/kg	37	110	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
Aroclor-1232	<15	ug/kg	15	53	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
Aroclor-1242	<13	ug/kg	13	53	1		7/26/2022 09:00	8/4/2022 04:44	AJZ	EPA 8082A
Aroclor-1248	<19	ug/kg	19	56	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
Aroclor-1254	<24	ug/kg	24	72	1		7/26/2022 09:00	8/4/2022 04:44	AJZ	EPA 8082A
Aroclor-1260	<15	ug/kg	15	53	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
Aroclor-1262	<13	ug/kg	13	53	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
Aroclor-1268	<23	ug/kg	23	68	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166101 Sample Description: SB4_(4-6) Sampled: 7/20/2022 13:25

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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PCB, Total	<13	ug/kg	13	53	1		7/26/2022 09:00	8/2/2022 21:26	AJZ	EPA 8082A
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Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166102 Sample Description: SB4_(6-8) Sampled: 7/20/2022 13:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Inorganic Results

Solids, Percent	78.5	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.29	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	55.9	mg/kg	2.2	12	1		7/26/2022 08:30	7/26/2022 11:30	HLB	EPA 350.1
Phosphorus	380	mg/kg	30	100	1		7/27/2022 08:30	7/28/2022 14:12	RLB	EPA 365.4
Nitrogen Kjeldahl	762	mg/kg	53	180	1		7/27/2022 08:30	7/28/2022 11:30	RLB	EPA 351.2
Nitrate Nitrogen	<1.0	mg/kg	1.0	3.3	1		8/1/2022 10:30	8/1/2022 14:53	TMG	EPA 9056A
Total Organic Carbon	30800	mg/kg	200	640	1			7/29/2022 10:08	TMG	L-Kahn/9060A

Metals Results

Arsenic	4.4	mg/kg	0.24	1.3	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Barium	20	mg/kg	0.065	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Cadmium	0.28	mg/kg	0.034 *	0.31	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Chromium	9.3	mg/kg	0.089	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Copper	18	mg/kg	0.16	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Iron	8500	mg/kg	3.8	19	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166102

Sample Description: SB4_(6-8)

Sampled: 7/20/2022 13:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Lead	23	mg/kg	0.098	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Manganese	440	mg/kg	0.088	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Nickel	8.8	mg/kg	0.075	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Selenium	<0.31	mg/kg	0.31	1.3	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Zinc	57	mg/kg	0.083	0.63	1		7/25/2022 12:15	7/26/2022 20:28	NAH	EPA 6010C
Mercury	0.034	mg/kg	0.0038	0.012	1		7/27/2022 13:30	7/29/2022 11:03	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	199	ug/kg	15	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
2-Methylnaphthalene	305	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Acenaphthene	864	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Acenaphthylene	182	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Anthracene	1730	ug/kg	14	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Benzo(a)anthracene	4120	ug/kg	130	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Benzo(a)pyrene	3720	ug/kg	110	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	5270	ug/kg	130	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	2030	ug/kg	15	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	1640	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Chrysene	4500	ug/kg	130	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	548	ug/kg	15	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Fluoranthene	11500	ug/kg	130	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Fluorene	1040	ug/kg	11	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	2520	ug/kg	150	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Naphthalene	266	ug/kg	13	61	10		7/26/2022 09:00	7/29/2022 18:13	JJY	EPA 8270D-SIM
Phenanthrene	8150	ug/kg	89	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM
Pyrene	8110	ug/kg	110	610	100		7/26/2022 09:00	8/1/2022 18:53	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166102 Sample Description: SB4_(6-8) Sampled: 7/20/2022 13:30

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1016	<21	ug/kg	21	64	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
Aroclor-1221	<35	ug/kg	35	100	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
Aroclor-1232	<14	ug/kg	14	50	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
Aroclor-1242	165	ug/kg	13	50	1	P	7/26/2022 09:00	8/4/2022 05:05	AJZ	EPA 8082A
Aroclor-1248	<18	ug/kg	18	53	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
Aroclor-1254	285	ug/kg	23	68	1		7/26/2022 09:00	8/4/2022 05:05	AJZ	EPA 8082A
Aroclor-1260	129	ug/kg	14	50	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
Aroclor-1262	<13	ug/kg	13	50	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
Aroclor-1268	<21	ug/kg	21	64	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A
PCB, Total	579	ug/kg	13	50	1		7/26/2022 09:00	8/2/2022 21:48	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166103 Sample Description: SB5_(0-2) Sampled: 7/20/2022 14:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	86.4	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.92	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	<2.0	mg/kg	2.0	11	1		7/26/2022 08:30	7/26/2022 11:31	HLB	EPA 350.1
Phosphorus	104	mg/kg	29	100	1		7/27/2022 08:30	7/28/2022 14:14	RLB	EPA 365.4
Nitrogen Kjeldahl	<51	mg/kg	51	170	1		7/27/2022 08:30	7/28/2022 11:31	RLB	EPA 351.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166103

Sample Description: SB5_(0-2)

Sampled: 7/20/2022 14:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Nitrate Nitrogen	<0.92	mg/kg	0.92	3.0	1		8/1/2022 10:30	8/1/2022 15:07	TMG	EPA 9056A
Total Organic Carbon	55300	mg/kg	190	580	1			7/29/2022 13:50	TMG	L-Kahn/9060A
Metals Results										
Arsenic	1.9	mg/kg	0.22	1.1	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Barium	7.2	mg/kg	0.059	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Cadmium	0.15	mg/kg	0.031 *	0.29	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Chromium	4.8	mg/kg	0.081	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Copper	7.7	mg/kg	0.15	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Iron	6800	mg/kg	3.4	17	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Lead	4.4	mg/kg	0.089	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Manganese	440	mg/kg	0.080	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Nickel	4.6	mg/kg	0.068	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Selenium	<0.29	mg/kg	0.29	1.1	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Zinc	53	mg/kg	0.075	0.57	1		7/25/2022 12:15	7/26/2022 20:36	NAH	EPA 6010C
Mercury	0.0034	mg/kg	0.0034 *	0.010	1		7/27/2022 13:30	7/29/2022 11:06	MDS	EPA 7471B
Organic Results										
4,4'-DDE	0.910	ug/kg	0.57 *	2.3	1	P	7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
4,4'-DDT	<1.9	ug/kg	1.9	6.8	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
Aldrin	<1.5	ug/kg	1.5	4.6	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
alpha-Chlordane	<1.0	ug/kg	1.0	4.6	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
Chlordane (Technical)	<22	ug/kg	22	68	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
Dieldrin	<0.91	ug/kg	0.91	4.6	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
Endrin	1.93	ug/kg	1.5 *	6.8	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
gamma-Chlordane	<1.0	ug/kg	1.0	4.6	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166103

Sample Description: SB5_(0-2)

Sampled: 7/20/2022 14:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Heptachlor	<1.7	ug/kg	1.7	6.8	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
Lindane	2.73	ug/kg	1.8 *	6.8	1	P	7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
Toxaphene	<23	ug/kg	23	68	1		7/26/2022 09:00	8/2/2022 16:22	AJZ	EPA 8081B
1-Methylnaphthalene	6.51	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
2-Methylnaphthalene	10.7	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Acenaphthene	13.0	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Acenaphthylene	4.37	ug/kg	1.2 *	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Anthracene	30.3	ug/kg	1.3	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Benzo(a)anthracene	123	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Benzo(a)pyrene	113	ug/kg	1.0	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	166	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	74.1	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	47.7	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Chrysene	120	ug/kg	1.2	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	15.4	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Fluoranthene	262	ug/kg	2.3	11	2		7/26/2022 09:00	8/1/2022 17:13	JJY	EPA 8270D-SIM
Fluorene	14.8	ug/kg	1.0	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	89.1	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Naphthalene	2.41	ug/kg	1.2 *	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Phenanthrene	123	ug/kg	0.81	5.7	1		7/26/2022 09:00	7/29/2022 18:33	JJY	EPA 8270D-SIM
Pyrene	277	ug/kg	2.1	11	2		7/26/2022 09:00	8/1/2022 17:13	JJY	EPA 8270D-SIM
Aroclor-1016	<20	ug/kg	20	59	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A
Aroclor-1221	<32	ug/kg	32	93	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A
Aroclor-1232	<13	ug/kg	13	46	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166103 Sample Description: SB5_(0-2) Sampled: 7/20/2022 14:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1242	<12	ug/kg	12	46	1		7/26/2022 09:00	8/4/2022 05:27	AJZ	EPA 8082A
Aroclor-1248	<16	ug/kg	16	49	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A
Aroclor-1254	<21	ug/kg	21	63	1		7/26/2022 09:00	8/4/2022 05:27	AJZ	EPA 8082A
Aroclor-1260	<13	ug/kg	13	46	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A
Aroclor-1262	<12	ug/kg	12	46	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A
Aroclor-1268	<20	ug/kg	20	59	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A
PCB, Total	<12	ug/kg	12	46	1		7/26/2022 09:00	8/2/2022 23:15	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166104 Sample Description: SB5_(2-4) Sampled: 7/20/2022 14:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	86.6	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	8.17	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	<1.9	mg/kg	1.9	11	1		7/26/2022 08:30	7/26/2022 11:33	HLB	EPA 350.1
Phosphorus	199	mg/kg	29	99	1		7/27/2022 08:30	7/28/2022 14:15	RLB	EPA 365.4
Nitrogen Kjeldahl	107	mg/kg	50 *	170	1		7/27/2022 08:30	7/28/2022 11:32	RLB	EPA 351.2
Nitrate Nitrogen	<0.92	mg/kg	0.92	3.0	1		8/1/2022 10:30	8/1/2022 15:21	TMG	EPA 9056A
Total Organic Carbon	36400	mg/kg	180	580	1			7/29/2022 13:56	TMG	L-Kahn/9060A

Metals Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166104

Sample Description: SB5_(2-4)

Sampled: 7/20/2022 14:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Arsenic	2.8	mg/kg	0.21	1.1	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Barium	6.5	mg/kg	0.057	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Cadmium	0.13	mg/kg	0.030 *	0.28	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Chromium	4.1	mg/kg	0.078	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Copper	7.4	mg/kg	0.14	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Iron	7100	mg/kg	3.3	17	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Lead	3.8	mg/kg	0.086	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Manganese	480	mg/kg	0.077	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Nickel	4.6	mg/kg	0.066	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Selenium	<0.28	mg/kg	0.28	1.1	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Zinc	23	mg/kg	0.073	0.55	1		7/25/2022 12:15	7/26/2022 20:44	NAH	EPA 6010C
Mercury	0.0036	mg/kg	0.0033 *	0.010	1		7/27/2022 13:30	7/29/2022 11:09	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	<1.4	ug/kg	1.4	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
2-Methylnaphthalene	<1.2	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Acenaphthene	12.1	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Acenaphthylene	16.2	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Anthracene	38.3	ug/kg	1.3	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	154	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Benzo(a)pyrene	118	ug/kg	1.0	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	172	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	60.2	ug/kg	1.4	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	153	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Chrysene	133	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	18.0	ug/kg	1.4	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166104

Sample Description: SB5_(2-4)

Sampled: 7/20/2022 14:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Fluoranthene	263	ug/kg	2.3	11	2		7/26/2022 09:00	8/1/2022 17:33	JJY	EPA 8270D-SIM
Fluorene	15.0	ug/kg	1.0	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	79.0	ug/kg	1.4	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Naphthalene	<1.2	ug/kg	1.2	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Phenanthrene	114	ug/kg	0.81	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Pyrene	207	ug/kg	1.0	5.5	1		7/26/2022 09:00	7/29/2022 18:53	JJY	EPA 8270D-SIM
Aroclor-1016	<19	ug/kg	19	58	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
Aroclor-1221	<32	ug/kg	32	90	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
Aroclor-1232	<12	ug/kg	12	45	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
Aroclor-1242	<11	ug/kg	11	45	1		7/26/2022 09:00	8/4/2022 05:49	AJZ	EPA 8082A
Aroclor-1248	<16	ug/kg	16	47	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
Aroclor-1254	<20	ug/kg	20	61	1		7/26/2022 09:00	8/4/2022 05:49	AJZ	EPA 8082A
Aroclor-1260	<12	ug/kg	12	45	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
Aroclor-1262	<11	ug/kg	11	45	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
Aroclor-1268	<19	ug/kg	19	58	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A
PCB, Total	<11	ug/kg	11	45	1		7/26/2022 09:00	8/2/2022 23:37	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166105

Sample Description: SB5_(4-6)

Sampled: 7/20/2022 14:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166105

Sample Description: SB5_(4-6)

Sampled: 7/20/2022 14:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	87.3	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	8.38	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	<1.9	mg/kg	1.9	11	1		7/26/2022 08:30	7/26/2022 11:34	HLB	EPA 350.1
Phosphorus	177	mg/kg	33	110	1		7/27/2022 08:30	7/28/2022 14:16	RLB	EPA 365.4
Nitrogen Kjeldahl	94.8	mg/kg	57 *	190	1		7/27/2022 08:30	7/28/2022 11:33	RLB	EPA 351.2
Nitrate Nitrogen	<0.91	mg/kg	0.91	3.0	1		8/1/2022 10:30	8/1/2022 15:35	TMG	EPA 9056A
Total Organic Carbon	55300	mg/kg	180	570	1			7/29/2022 14:13	TMG	L-Kahn/9060A
Metals Results										
Arsenic	3.2	mg/kg	0.22	1.2	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Barium	8.5	mg/kg	0.061	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Cadmium	0.18	mg/kg	0.032 *	0.29	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Chromium	7.3	mg/kg	0.083	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Copper	20	mg/kg	0.15	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Iron	12000	mg/kg	3.5	18	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Lead	11	mg/kg	0.092	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Manganese	510	mg/kg	0.082	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Nickel	6.6	mg/kg	0.070	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Selenium	<0.29	mg/kg	0.29	1.2	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Zinc	29	mg/kg	0.078	0.59	1		7/25/2022 12:15	7/26/2022 20:52	NAH	EPA 6010C
Mercury	0.0062	mg/kg	0.0034 *	0.010	1		7/27/2022 13:30	7/29/2022 11:12	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	23.6	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM
2-Methylnaphthalene	30.6	ug/kg	1.1	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166105

Sample Description: SB5_(4-6)

Sampled: 7/20/2022 14:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Acenaphthene	138	ug/kg	1.1	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM
Acenaphthylene	35.9	ug/kg	1.1	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM
Anthracene	547	ug/kg	25	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	1170	ug/kg	23	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Benzo(a)pyrene	1020	ug/kg	21	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	1530	ug/kg	23	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	455	ug/kg	27	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	388	ug/kg	23	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Chrysene	1160	ug/kg	23	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	115	ug/kg	1.4	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM
Fluoranthene	2810	ug/kg	23	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Fluorene	200	ug/kg	1.0	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	626	ug/kg	27	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Naphthalene	30.9	ug/kg	1.1	5.7	1		7/26/2022 09:00	7/29/2022 19:13	JJY	EPA 8270D-SIM
Phenanthrene	1890	ug/kg	16	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Pyrene	2200	ug/kg	21	110	20		7/26/2022 09:00	8/1/2022 17:53	JJY	EPA 8270D-SIM
Aroclor-1016	<19	ug/kg	19	58	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
Aroclor-1221	<32	ug/kg	32	92	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
Aroclor-1232	<13	ug/kg	13	46	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
Aroclor-1242	<11	ug/kg	11	46	1		7/26/2022 09:00	8/4/2022 07:37	AJZ	EPA 8082A
Aroclor-1248	<16	ug/kg	16	48	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
Aroclor-1254	25.2	ug/kg	21 *	62	1	P	7/26/2022 09:00	8/4/2022 07:37	AJZ	EPA 8082A
Aroclor-1260	<13	ug/kg	13	46	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
Aroclor-1262	<11	ug/kg	11	46	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
Aroclor-1268	<19	ug/kg	19	58	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166105 Sample Description: SB5_(4-6) Sampled: 7/20/2022 14:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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PCB, Total	25.2	ug/kg	11 *	46	1		7/26/2022 09:00	8/2/2022 23:58	AJZ	EPA 8082A
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Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166106 Sample Description: SB3_(0-2) Sampled: 7/20/2022 15:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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Inorganic Results

Solids, Percent	51.3	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.25	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	164	mg/kg	3.5	19	1		7/26/2022 08:30	7/26/2022 11:35	HLB	EPA 350.1
Phosphorus	8990	mg/kg	270	940	5		7/27/2022 08:30	7/28/2022 14:30	RLB	EPA 365.4
Nitrogen Kjeldahl	2560	mg/kg	96	320	1		7/27/2022 08:30	7/28/2022 11:35	RLB	EPA 351.2
Nitrate Nitrogen	<1.6	mg/kg	1.6	5.1	1		8/1/2022 10:30	8/1/2022 15:50	TMG	EPA 9056A
Total Organic Carbon	35500	mg/kg	310	970	1			7/29/2022 11:08	TMG	L-Kahn/9060A

Metals Results

Arsenic	6.4	mg/kg	0.37	1.9	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Barium	58	mg/kg	0.10	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Cadmium	0.68	mg/kg	0.053	0.49	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Chromium	29	mg/kg	0.14	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Copper	40	mg/kg	0.25	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Iron	20000	mg/kg	5.8	29	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166106

Sample Description: SB3_(0-2)

Sampled: 7/20/2022 15:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Lead	43	mg/kg	0.15	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Manganese	550	mg/kg	0.14	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Nickel	22	mg/kg	0.12	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Selenium	<0.49	mg/kg	0.49	1.9	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Zinc	160	mg/kg	0.13	0.97	1		7/25/2022 12:15	7/26/2022 21:00	NAH	EPA 6010C
Mercury	0.051	mg/kg	0.0054	0.016	1		7/27/2022 13:30	7/29/2022 11:15	MDS	EPA 7471B
Organic Results										
4,4'-DDE	37.3	ug/kg	0.94	3.7	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
4,4'-DDT	5.81	ug/kg	3.2 *	11	1	P	7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
Aldrin	<2.4	ug/kg	2.4	7.5	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
alpha-Chlordane	<1.7	ug/kg	1.7	7.5	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
Chlordane (Technical)	<36	ug/kg	36	110	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
Dieldrin	<1.5	ug/kg	1.5	7.5	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
Endrin	<2.4	ug/kg	2.4	11	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
gamma-Chlordane	10.7	ug/kg	1.7	7.5	1	P	7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
Heptachlor	27.0	ug/kg	2.8	11	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
Lindane	<300	ug/kg	300	1100	100		7/26/2022 09:00	8/3/2022 11:12	AJZ	EPA 8081B
Toxaphene	<37	ug/kg	37	110	1		7/26/2022 09:00	8/2/2022 16:39	AJZ	EPA 8081B
1-Methylnaphthalene	<23	ug/kg	23	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
2-Methylnaphthalene	36.9	ug/kg	19 *	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Acenaphthene	126	ug/kg	19	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Acenaphthylene	75.7	ug/kg	19 *	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Anthracene	262	ug/kg	21	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Benzo(a)anthracene	1260	ug/kg	19	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166106

Sample Description: SB3_(0-2)

Sampled: 7/20/2022 15:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(a)pyrene	1420	ug/kg	18	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	2090	ug/kg	19	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	896	ug/kg	23	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	647	ug/kg	19	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Chrysene	1500	ug/kg	19	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	190	ug/kg	23	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Fluoranthene	3080	ug/kg	19	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Fluorene	182	ug/kg	18	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	1110	ug/kg	23	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Naphthalene	40.2	ug/kg	19 *	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Phenanthrene	1320	ug/kg	14	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Pyrene	2350	ug/kg	18	94	10		7/26/2022 09:00	7/29/2022 19:33	JJY	EPA 8270D-SIM
Aroclor-1016	<33	ug/kg	33	100	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
Aroclor-1221	<55	ug/kg	55	160	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
Aroclor-1232	<22	ug/kg	22	78	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
Aroclor-1242	200	ug/kg	20	78	1		7/26/2022 09:00	8/4/2022 07:59	AJZ	EPA 8082A
Aroclor-1248	<27	ug/kg	27	82	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
Aroclor-1254	163	ug/kg	35	110	1		7/26/2022 09:00	8/4/2022 07:59	AJZ	EPA 8082A
Aroclor-1260	62.7	ug/kg	22 *	78	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
Aroclor-1262	<20	ug/kg	20	78	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
Aroclor-1268	<33	ug/kg	33	100	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A
PCB, Total	426	ug/kg	20	78	1		7/26/2022 09:00	8/3/2022 00:42	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166106 Sample Description: SB3_(0-2) Sampled: 7/20/2022 15:45

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166107 Sample Description: SB3_(2-4) Sampled: 7/20/2022 15:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	54.9	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.13	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	255	mg/kg	6.6	36	2		7/26/2022 08:30	7/26/2022 11:45	HLB	EPA 350.1
Phosphorus	618	mg/kg	46	160	1		7/27/2022 08:30	7/28/2022 14:19	RLB	EPA 365.4
Nitrogen Kjeldahl	1680	mg/kg	81	270	1		7/27/2022 08:30	7/28/2022 11:36	RLB	EPA 351.2
Nitrate Nitrogen	2.02	mg/kg	1.5 *	4.7	1		8/1/2022 10:30	8/1/2022 16:04	TMG	EPA 9056A
Total Organic Carbon	53400	mg/kg	290	910	1			7/29/2022 11:16	TMG	L-Kahn/9060A
Metals Results										
Arsenic	6.6	mg/kg	0.34	1.8	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Barium	67	mg/kg	0.094	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Cadmium	0.75	mg/kg	0.049	0.45	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Chromium	32	mg/kg	0.13	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Copper	42	mg/kg	0.23	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Iron	22000	mg/kg	5.4	27	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Lead	77	mg/kg	0.14	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Manganese	520	mg/kg	0.13	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Nickel	25	mg/kg	0.11	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166107

Sample Description: SB3_(2-4)

Sampled: 7/20/2022 15:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Selenium	<0.45	mg/kg	0.45	1.8	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Zinc	160	mg/kg	0.12	0.90	1		7/25/2022 12:15	7/26/2022 21:08	NAH	EPA 6010C
Mercury	0.059	mg/kg	0.0051	0.016	1		7/27/2022 13:30	7/29/2022 11:19	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	<22	ug/kg	22	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
2-Methylnaphthalene	19.1	ug/kg	18 *	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Acenaphthene	90.7	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Acenaphthylene	58.1	ug/kg	18 *	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Anthracene	165	ug/kg	20	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Benzo(a)anthracene	845	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Benzo(a)pyrene	948	ug/kg	16	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	1440	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	630	ug/kg	22	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	456	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Chrysene	1010	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	135	ug/kg	22	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Fluoranthene	2090	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Fluorene	147	ug/kg	16	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	792	ug/kg	22	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Naphthalene	<18	ug/kg	18	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Phenanthrene	887	ug/kg	13	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Pyrene	1620	ug/kg	16	90	10		7/26/2022 09:00	7/29/2022 19:53	JJY	EPA 8270D-SIM
Aroclor-1016	<31	ug/kg	31	93	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A
Aroclor-1221	<51	ug/kg	51	150	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166107 Sample Description: SB3_(2-4) Sampled: 7/20/2022 15:50

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1232	<20	ug/kg	20	73	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A
Aroclor-1242	71.4	ug/kg	18 *	73	1		7/26/2022 09:00	8/4/2022 08:21	AJZ	EPA 8082A
Aroclor-1248	<26	ug/kg	26	77	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A
Aroclor-1254	143	ug/kg	33	99	1		7/26/2022 09:00	8/4/2022 08:21	AJZ	EPA 8082A
Aroclor-1260	62.2	ug/kg	20 *	73	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A
Aroclor-1262	<18	ug/kg	18	73	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A
Aroclor-1268	<31	ug/kg	31	93	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A
PCB, Total	277	ug/kg	18	73	1		7/26/2022 09:00	8/3/2022 01:04	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166108 Sample Description: SB3_(4-6) Sampled: 7/20/2022 15:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	60.3	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.16	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	315	mg/kg	6.0	33	2		7/26/2022 08:30	7/26/2022 11:46	HLB	EPA 350.1
Phosphorus	793	mg/kg	43	150	1		7/27/2022 08:30	7/28/2022 14:20	RLB	EPA 365.4
Nitrogen Kjeldahl	2050	mg/kg	75	250	1		7/27/2022 08:30	7/28/2022 11:37	RLB	EPA 351.2
Nitrate Nitrogen	1.96	mg/kg	1.3 *	4.3	1		8/1/2022 10:30	8/1/2022 16:18	TMG	EPA 9056A
Total Organic Carbon	46400	mg/kg	270	830	1			7/29/2022 11:22	TMG	L-Kahn/9060A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166108

Sample Description: SB3_(4-6)

Sampled: 7/20/2022 15:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Arsenic	7.3	mg/kg	0.32	1.7	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Barium	70	mg/kg	0.087	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Cadmium	0.82	mg/kg	0.045	0.42	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Chromium	70	mg/kg	0.12	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Copper	58	mg/kg	0.22	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Iron	22000	mg/kg	5.0	25	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Lead	140	mg/kg	0.13	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Manganese	510	mg/kg	0.12	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Nickel	29	mg/kg	0.10	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Selenium	<0.42	mg/kg	0.42	1.7	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Zinc	180	mg/kg	0.11	0.84	1		7/25/2022 12:15	7/26/2022 21:36	NAH	EPA 6010C
Mercury	0.086	mg/kg	0.0047	0.014	1		7/27/2022 13:30	7/29/2022 11:22	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	48.5	ug/kg	20 *	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
2-Methylnaphthalene	72.2	ug/kg	17 *	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Acenaphthene	296	ug/kg	17	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Acenaphthylene	105	ug/kg	17	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Anthracene	525	ug/kg	18	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Benzo(a)anthracene	2100	ug/kg	17	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Benzo(a)pyrene	2120	ug/kg	15	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	2980	ug/kg	17	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	1270	ug/kg	20	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	975	ug/kg	17	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Chrysene	2440	ug/kg	17	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166108

Sample Description: SB3_(4-6)

Sampled: 7/20/2022 15:55

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibenzo(a,h)anthracene	291	ug/kg	20	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Fluoranthene	5640	ug/kg	33	160	20		7/26/2022 09:00	8/1/2022 18:13	JJY	EPA 8270D-SIM
Fluorene	432	ug/kg	15	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	1610	ug/kg	20	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Naphthalene	59.3	ug/kg	17 *	78	10		7/26/2022 09:00	7/29/2022 20:12	JJY	EPA 8270D-SIM
Phenanthrene	3120	ug/kg	23	160	20		7/26/2022 09:00	8/1/2022 18:13	JJY	EPA 8270D-SIM
Pyrene	4230	ug/kg	30	160	20		7/26/2022 09:00	8/1/2022 18:13	JJY	EPA 8270D-SIM
Aroclor-1016	<27	ug/kg	27	81	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
Aroclor-1221	<45	ug/kg	45	130	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
Aroclor-1232	<18	ug/kg	18	64	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
Aroclor-1242	92.3	ug/kg	16	64	1		7/26/2022 09:00	8/4/2022 08:42	AJZ	EPA 8082A
Aroclor-1248	<22	ug/kg	22	67	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
Aroclor-1254	183	ug/kg	29	86	1		7/26/2022 09:00	8/4/2022 08:42	AJZ	EPA 8082A
Aroclor-1260	79.6	ug/kg	18	64	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
Aroclor-1262	<16	ug/kg	16	64	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
Aroclor-1268	<27	ug/kg	27	81	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A
PCB, Total	355	ug/kg	16	64	1		7/26/2022 09:00	8/3/2022 01:25	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1		8/9/2022 00:00		SUB	
Oil & Grease	attached		N/A	N/A	1		8/9/2022 00:00		SUB	1664
Cyanide	attached		N/A	N/A	1		8/7/2022 00:00		SUB	

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166109

Sample Description: SB1_(0-6)

Sampled: 7/20/2022 16:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	62.5	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.08	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	309	mg/kg	5.7	32	2		7/26/2022 08:30	7/26/2022 11:47	HLB	EPA 350.1
Phosphorus	704	mg/kg	39	130	1		7/27/2022 08:30	7/28/2022 14:21	RLB	EPA 365.4
Nitrogen Kjeldahl	2070	mg/kg	69	230	1		7/27/2022 08:30	7/28/2022 11:38	RLB	EPA 351.2
Nitrate Nitrogen	1.79	mg/kg	1.3 *	4.2	1		8/1/2022 10:30	8/1/2022 16:32	TMG	EPA 9056A
Total Organic Carbon	39600	mg/kg	260	800	1			7/29/2022 11:28	TMG	L-Kahn/9060A
Metals Results										
Arsenic	6.9	mg/kg	0.32	1.7	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Barium	59	mg/kg	0.088	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Cadmium	0.73	mg/kg	0.045	0.42	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Chromium	45	mg/kg	0.12	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Copper	64	mg/kg	0.22	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Iron	19000	mg/kg	5.1	25	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Lead	100	mg/kg	0.13	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Manganese	550	mg/kg	0.12	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Nickel	23	mg/kg	0.10	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Selenium	<0.42	mg/kg	0.42	1.7	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Zinc	150	mg/kg	0.11	0.84	1		7/25/2022 12:15	7/26/2022 21:44	NAH	EPA 6010C
Mercury	0.092	mg/kg	0.0046	0.014	1		7/27/2022 13:30	7/29/2022 11:25	MDS	EPA 7471B
Organic Results										
4,4'-DDE	33.3	ug/kg	0.80	3.2	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
4,4'-DDT	3.38	ug/kg	2.7 *	9.6	1	P	7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166109

Sample Description: SB1_(0-6)

Sampled: 7/20/2022 16:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aldrin	<2.1	ug/kg	2.1	6.4	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
alpha-Chlordane	<1.4	ug/kg	1.4	6.4	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
Chlordane (Technical)	<31	ug/kg	31	96	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
Dieldrin	<1.3	ug/kg	1.3	6.4	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
Endrin	<2.1	ug/kg	2.1	9.6	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
gamma-Chlordane	15.8	ug/kg	1.4	6.4	1	P	7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
Heptachlor	42.9	ug/kg	2.4	9.6	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
Lindane	<260	ug/kg	260	960	100		7/26/2022 09:00	8/3/2022 11:44	AJZ	EPA 8081B
Toxaphene	<32	ug/kg	32	96	1		7/26/2022 09:00	8/2/2022 17:12	AJZ	EPA 8081B
1-Methylnaphthalene	24.5	ug/kg	19 *	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
2-Methylnaphthalene	42.7	ug/kg	16 *	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Acenaphthene	122	ug/kg	16	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Acenaphthylene	73.4	ug/kg	16 *	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Anthracene	246	ug/kg	18	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Benzo(a)anthracene	1250	ug/kg	16	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Benzo(a)pyrene	1360	ug/kg	14	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	2010	ug/kg	16	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	854	ug/kg	19	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	581	ug/kg	16	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Chrysene	1470	ug/kg	16	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	189	ug/kg	19	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Fluoranthene	2950	ug/kg	16	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Fluorene	195	ug/kg	14	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	1050	ug/kg	19	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Naphthalene	49.7	ug/kg	16 *	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166109 Sample Description: SB1_(0-6) Sampled: 7/20/2022 16:15

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phenanthrene	1520	ug/kg	11	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Pyrene	2360	ug/kg	14	79	10		7/26/2022 09:00	7/29/2022 20:32	JJY	EPA 8270D-SIM
Aroclor-1016	<27	ug/kg	27	81	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
Aroclor-1221	<44	ug/kg	44	130	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
Aroclor-1232	<17	ug/kg	17	63	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
Aroclor-1242	<16	ug/kg	16	63	1		7/26/2022 09:00	8/4/2022 09:26	AJZ	EPA 8082A
Aroclor-1248	<22	ug/kg	22	66	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
Aroclor-1254	93.3	ug/kg	28	85	1		7/26/2022 09:00	8/4/2022 09:26	AJZ	EPA 8082A
Aroclor-1260	49.0	ug/kg	17 *	63	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
Aroclor-1262	<16	ug/kg	16	63	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
Aroclor-1268	<27	ug/kg	27	81	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A
PCB, Total	142	ug/kg	16	63	1		7/26/2022 09:00	8/3/2022 02:09	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166110 Sample Description: SB1_(6-12) Sampled: 7/20/2022 16:20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Solids, Percent	62.6	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
pH	7.12	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Ammonia Nitrogen	274	mg/kg	5.2	29	2		7/26/2022 08:30	7/26/2022 11:48	HLB	EPA 350.1

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166110

Sample Description: SB1_(6-12)

Sampled: 7/20/2022 16:20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Phosphorus	741	mg/kg	42	150	1		7/27/2022 08:30	7/28/2022 14:25	RLB	EPA 365.4
Nitrogen Kjeldahl	1790	mg/kg	74	250	1		7/27/2022 08:30	7/28/2022 11:42	RLB	EPA 351.2
Nitrate Nitrogen	1.83	mg/kg	1.3 *	4.2	1		8/1/2022 10:30	8/1/2022 16:47	TMG	EPA 9056A
Total Organic Carbon	38900	mg/kg	260	800	1			7/29/2022 11:38	TMG	L-Kahn/9060A
Metals Results										
Arsenic	6.8	mg/kg	0.31	1.6	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Barium	56	mg/kg	0.086	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Cadmium	0.69	mg/kg	0.044	0.41	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Chromium	49	mg/kg	0.12	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Copper	66	mg/kg	0.21	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Iron	17000	mg/kg	4.9	25	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Lead	110	mg/kg	0.13	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Manganese	510	mg/kg	0.12	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Nickel	21	mg/kg	0.099	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Selenium	<0.41	mg/kg	0.41	1.6	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Zinc	140	mg/kg	0.11	0.82	1		7/25/2022 12:15	7/26/2022 21:52	NAH	EPA 6010C
Mercury	0.052	mg/kg	0.0045	0.014	1		7/27/2022 13:30	7/29/2022 11:28	MDS	EPA 7471B
Organic Results										
1-Methylnaphthalene	44.3	ug/kg	19 *	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
2-Methylnaphthalene	80.7	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Acenaphthene	219	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Acenaphthylene	113	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Anthracene	513	ug/kg	18	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Benzo(a)anthracene	1950	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166110

Sample Description: SB1_(6-12)

Sampled: 7/20/2022 16:20

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Benzo(a)pyrene	2000	ug/kg	14	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	2820	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	1140	ug/kg	19	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	916	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Chrysene	2320	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	274	ug/kg	19	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Fluoranthene	4850	ug/kg	32	160	20		7/26/2022 09:00	8/1/2022 18:33	JJY	EPA 8270D-SIM
Fluorene	363	ug/kg	14	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	1450	ug/kg	19	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Naphthalene	83.4	ug/kg	16	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Phenanthrene	2630	ug/kg	11	78	10		7/26/2022 09:00	7/29/2022 20:52	JJY	EPA 8270D-SIM
Pyrene	3940	ug/kg	29	160	20		7/26/2022 09:00	8/1/2022 18:33	JJY	EPA 8270D-SIM
Aroclor-1016	<27	ug/kg	27	82	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
Aroclor-1221	<45	ug/kg	45	130	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
Aroclor-1232	<18	ug/kg	18	64	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
Aroclor-1242	80.3	ug/kg	16	64	1		7/26/2022 09:00	8/4/2022 09:48	AJZ	EPA 8082A
Aroclor-1248	<22	ug/kg	22	67	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
Aroclor-1254	149	ug/kg	29	87	1		7/26/2022 09:00	8/4/2022 09:48	AJZ	EPA 8082A
Aroclor-1260	67.4	ug/kg	18	64	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
Aroclor-1262	<16	ug/kg	16	64	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
Aroclor-1268	<27	ug/kg	27	82	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A
PCB, Total	297	ug/kg	16	64	1		7/26/2022 09:00	8/3/2022 02:31	AJZ	EPA 8082A

Sub Lab Results

Hydrometer	attached		N/A	N/A	1			8/9/2022 00:00	SUB	
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Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166110	Sample Description: SB1_(6-12)	Sampled: 7/20/2022 16:20
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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Oil & Grease	attached		N/A	N/A	1			8/9/2022 00:00	SUB	1664
Cyanide	attached		N/A	N/A	1			8/7/2022 00:00	SUB	

CT LAB Sample#: 1166125	Sample Description: EQB	Sampled: 7/20/2022 17:00
-------------------------	-------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Cyanide	<1.7	ug/L	1.7	5.1	1		7/25/2022 09:10	7/25/2022 11:47	ATJ	EPA 9012A
Total Organic Carbon	<0.5	mg/L	0.5	1.5	1			7/28/2022 13:38	TMG	EPA 9060A
Metals Results										
Total Arsenic	<7.7	ug/L	7.7	40	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Barium	<0.71	ug/L	0.71	4.0	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Cadmium	<0.41	ug/L	0.41	2.0	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Chromium	<1.1	ug/L	1.1	5.0	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Copper	<5.2	ug/L	5.2	40	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Iron	127	ug/L	11	80	1	B	7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Lead	<1.4	ug/L	1.4	4.6	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Manganese	2.3	ug/L	1.4 *	5.0	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Nickel	<1.5	ug/L	1.5	5.0	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Selenium	<10	ug/L	10	40	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Zinc	8.4	ug/L	4.5 *	20	1		7/25/2022 19:21	7/26/2022 15:25	NAH	EPA 6010C
Total Mercury	<0.020	ug/L	0.020	0.080	1		7/27/2022 15:20	7/28/2022 11:06	MDS	EPA 7470A
Organic Results										
4,4'-DDE	<0.0058	ug/L	0.0058	0.023	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166125

Sample Description: EQB

Sampled: 7/20/2022 17:00

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
4,4'-DDT	<0.023	ug/L	0.023	0.093	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Aldrin	<0.019	ug/L	0.019	0.093	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
alpha-Chlordane	<0.0070	ug/L	0.0070	0.023	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Chlordane (Technical)	<0.23	ug/L	0.23	0.93	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Dieldrin	<0.0064	ug/L	0.0064	0.023	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Endrin	<0.011	ug/L	0.011	0.047	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
gamma-Chlordane	<0.0058	ug/L	0.0058	0.023	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Heptachlor	<0.023	ug/L	0.023	0.093	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Lindane	<0.012	ug/L	0.012	0.047	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
Toxaphene	<0.22	ug/L	0.22	0.93	1		7/26/2022 10:15	7/27/2022 00:59	AJZ	EPA 8081B
1-Methylnaphthalene	<0.0065	ug/L	0.0065	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
2-Methylnaphthalene	<0.0065	ug/L	0.0065	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Acenaphthene	<0.0056	ug/L	0.0056	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Acenaphthylene	<0.0047	ug/L	0.0047	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Anthracene	<0.0075	ug/L	0.0075	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Benzo(a)anthracene	<0.0093	ug/L	0.0093	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Benzo(a)pyrene	<0.013	ug/L	0.013	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Benzo(b)fluoranthene	<0.012	ug/L	0.012	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Benzo(g,h,i)perylene	<0.0093	ug/L	0.0093	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Benzo(k)fluoranthene	<0.016	ug/L	0.016	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Chrysene	<0.0093	ug/L	0.0093	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Dibenzo(a,h)anthracene	<0.015	ug/L	0.015	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Fluoranthene	<0.0093	ug/L	0.0093	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Fluorene	<0.0056	ug/L	0.0056	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Indeno(1,2,3-cd)pyrene	<0.011	ug/L	0.011	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166125

Sample Description: EQB

Sampled: 7/20/2022 17:00

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Naphthalene	<0.0047	ug/L	0.0047	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Phenanthrene	0.0076	ug/L	0.0075 *	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Pyrene	<0.013	ug/L	0.013	0.047	1		7/26/2022 14:00	7/28/2022 15:58	JJY	EPA 8270D-SIM
Aroclor-1016	<0.15	ug/L	0.15	0.45	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1221	<0.33	ug/L	0.33	0.98	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1232	<0.28	ug/L	0.28	0.84	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1242	<0.29	ug/L	0.29	0.87	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1248	<0.35	ug/L	0.35	0.87	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1254	<0.12	ug/L	0.12	0.35	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1260	<0.13	ug/L	0.13	0.38	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1262	<0.20	ug/L	0.20	0.70	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
Aroclor-1268	<0.12	ug/L	0.12	0.35	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A
PCB, Total	<0.12	ug/L	0.12	0.35	1		7/26/2022 10:15	7/27/2022 04:08	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes regarding entire Chain of Custody:

Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
 Project Manager
 608-356-2760

QC Qualifiers

<u>Code</u>	<u>Description</u>
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 289
 Louisiana NELAP (primary) ID# 115843
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01

Analytical Report

Eric Korthals
CT Laboratories Federal
1230 Lange Court
Baraboo, WI 53916-3109

August 04, 2022

Work Order: 22G0955

RE: General Analysis
Mill Pond

Dear Eric Korthals:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,



Tim Witrzek
Federal Program Manager
847.967.6666
twitrzek@emt.com

Approved for release: 8/4/2022 2:20:36PM

Approved by,



Nathan Fey
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB2_(0-2)	22G0955-01	Solid	07/20/22 12:30	07/29/22 10:30
SB2_(2-4)	22G0955-02	Solid	07/20/22 12:35	07/29/22 10:30
SB2_(2-4) DUP	22G0955-03	Solid	07/20/22 12:40	07/29/22 10:30
SB2_(4-6)	22G0955-04	Solid	07/20/22 12:45	07/29/22 10:30
SB2_(6-8)	22G0955-05	Solid	07/20/22 12:50	07/29/22 10:30
SB4_(0-2)	22G0955-06	Solid	07/20/22 13:15	07/29/22 10:30
SB4_(2-4)	22G0955-07	Solid	07/20/22 13:20	07/29/22 10:30
SB4_(4-6)	22G0955-08	Solid	07/20/22 13:25	07/29/22 10:30
SB4_(6-8-2)	22G0955-09	Solid	07/20/22 13:30	07/29/22 10:30
SB5_(0-2)	22G0955-10	Solid	07/20/22 14:45	07/29/22 10:30
SB5_(2-4)	22G0955-11	Solid	07/20/22 14:50	07/29/22 10:30
SB5_(4-6)	22G0955-12	Solid	07/20/22 14:55	07/29/22 10:30
SB3_(0-2)	22G0955-13	Solid	07/20/22 15:45	07/29/22 10:30
SB3_(2-4)	22G0955-14	Solid	07/20/22 15:50	07/29/22 10:30
SB3_(4-6)	22G0955-15	Solid	07/20/22 15:55	07/29/22 10:30
SB1_(0-6)	22G0955-16	Solid	07/20/22 16:15	07/29/22 10:30
SB1_(6-12)	22G0955-17	Solid	07/20/22 16:20	07/29/22 10:30

Case Narrative

Client: CT Laboratories Federal

Date: 08/04/2022

Project: General Analysis

Mill Pond

Work Order: 22G0955

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 22G0955

The samples were received on 07/29/22 10:30. The temperature of the cooler(s) at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	1.9

Container 01A (SB2_(0-2)) cap was not screwed on properly and water enter the sample container.

Additional sample 01A was received on 08/02/2022 at 11:00am.

Client Sample Results

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB2_(0-2)
Report Date: 08/04/2022
Collection Date: 07/20/2022 12:30
Matrix: Solid
Lab ID: 22G0955-01

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	83.2	0.100		H	% (Percent)	0.0240	08/03/22 05:20	B2H0095	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.999	0.999		Q, S1	mg/Kg	0.399	08/03/22 13:07	B2H0117	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB2_(2-4)
Report Date: 08/04/2022
Collection Date: 07/20/2022 12:35
Matrix: Solid
Lab ID: 22G0955-02

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	88.4	0.100		H	% (Percent)	0.0240	08/02/22 09:00	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.992	0.992			mg/Kg	0.397	08/02/22 12:31	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB2_(2-4) DUP
Report Date: 08/04/2022
Collection Date: 07/20/2022 12:40
Matrix: Solid
Lab ID: 22G0955-03

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	89.7	0.100		H	% (Percent)	0.0240	08/02/22 09:02	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.998	0.998			mg/Kg	0.399	08/02/22 12:33	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB2_(4-6)
Report Date: 08/04/2022
Collection Date: 07/20/2022 12:45
Matrix: Solid
Lab ID: 22G0955-04

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	82.0	0.100		H	% (Percent)	0.0240	08/02/22 09:04	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.996	0.996			mg/Kg	0.398	08/02/22 12:35	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB2_(6-8)
Report Date: 08/04/2022
Collection Date: 07/20/2022 12:50
Matrix: Solid
Lab ID: 22G0955-05

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	75.7	0.100		H	% (Percent)	0.0240	08/02/22 09:06	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.996	0.996			mg/Kg	0.398	08/02/22 12:37	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB4_(0-2)
Report Date: 08/04/2022
Collection Date: 07/20/2022 13:15
Matrix: Solid
Lab ID: 22G0955-06

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	65.2	0.100		H	% (Percent)	0.0240	08/02/22 09:08	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.995	0.995			mg/Kg	0.398	08/02/22 12:39	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB4_(2-4)
Report Date: 08/04/2022
Collection Date: 07/20/2022 13:20
Matrix: Solid
Lab ID: 22G0955-07

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	78.6	0.100		H	% (Percent)	0.0240	08/02/22 09:10	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.995	0.995			mg/Kg	0.398	08/02/22 12:41	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB4_(4-6)
Report Date: 08/04/2022
Collection Date: 07/20/2022 13:25
Matrix: Solid
Lab ID: 22G0955-08

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	77.1	0.100		H	% (Percent)	0.0240	08/02/22 09:12	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.994	0.994			mg/Kg	0.398	08/02/22 13:02	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB4_(6-8-2)
Report Date: 08/04/2022
Collection Date: 07/20/2022 13:30
Matrix: Solid
Lab ID: 22G0955-09

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	74.2	0.100		H	% (Percent)	0.0240	08/02/22 09:14	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.993	0.993			mg/Kg	0.397	08/02/22 13:04	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB5_(0-2)
Report Date: 08/04/2022
Collection Date: 07/20/2022 14:45
Matrix: Solid
Lab ID: 22G0955-10

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	87.8	0.100		H	% (Percent)	0.0240	08/02/22 09:16	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.999	0.999			mg/Kg	0.399	08/02/22 13:06	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB5_(2-4)
Report Date: 08/04/2022
Collection Date: 07/20/2022 14:50
Matrix: Solid
Lab ID: 22G0955-11

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	89.0	0.100		H	% (Percent)	0.0240	08/02/22 09:18	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.996	0.996			mg/Kg	0.398	08/02/22 13:08	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB5_(4-6)
Report Date: 08/04/2022
Collection Date: 07/20/2022 14:55
Matrix: Solid
Lab ID: 22G0955-12

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	89.4	0.100		H	% (Percent)	0.0240	08/02/22 09:20	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.991	0.991			mg/Kg	0.397	08/02/22 13:10	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB3_(0-2)
Report Date: 08/04/2022
Collection Date: 07/20/2022 15:45
Matrix: Solid
Lab ID: 22G0955-13

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	55.3	0.100		H	% (Percent)	0.0240	08/02/22 09:22	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 1.00	1.00			mg/Kg	0.400	08/02/22 13:12	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB3_(2-4)
Report Date: 08/04/2022
Collection Date: 07/20/2022 15:50
Matrix: Solid
Lab ID: 22G0955-14

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	58.2	0.100		H	% (Percent)	0.0240	08/02/22 09:24	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.995	0.995			mg/Kg	0.398	08/02/22 13:14	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB3_(4-6)
Report Date: 08/04/2022
Collection Date: 07/20/2022 15:55
Matrix: Solid
Lab ID: 22G0955-15

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	62.0	0.100		H	% (Percent)	0.0240	08/02/22 09:26	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.995	0.995			mg/Kg	0.398	08/02/22 13:15	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB1_(0-6)
Report Date: 08/04/2022
Collection Date: 07/20/2022 16:15
Matrix: Solid
Lab ID: 22G0955-16

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	66.2	0.100		H	% (Percent)	0.0240	08/02/22 09:28	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.992	0.992			mg/Kg	0.397	08/02/22 13:39	B2H0058	LN2	1

Client Sample Results

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Client Sample ID: SB1_(6-12)
Report Date: 08/04/2022
Collection Date: 07/20/2022 16:20
Matrix: Solid
Lab ID: 22G0955-17

Analyses	Result	EMT Reporting		Qual	Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit								
Wet Chemistry										
Method: SM2540G										
Total Solids	63.2	0.100		H	% (Percent)	0.0240	08/02/22 09:30	B2H0054	MKP	1
Method: SW9014 / SW9010B										
Cyanide	< 0.996	0.996			mg/Kg	0.399	08/02/22 13:41	B2H0058	LN2	1

Dates Report

Client: CT Laboratories Federal

Report Date: 08/04/2022

Project: General Analysis
Mill Pond

Work Order: 22G0955

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
22G0955-01	SB2_(0-2)	07/20/22	Solid	Total Solids / Percent Moisture		08/03/22 05:10	08/03/22 05:20	B2H0095	
				Cyanide, Total		08/03/22 09:05	08/03/22 13:07	B2H0117	S2H0061
22G0955-02	SB2_(2-4)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:00	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 12:31	B2H0058	S2H0025
22G0955-03	SB2_(2-4) DUP	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:02	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 12:33	B2H0058	S2H0025
22G0955-04	SB2_(4-6)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:04	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 12:35	B2H0058	S2H0025
22G0955-05	SB2_(6-8)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:06	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 12:37	B2H0058	S2H0025
22G0955-06	SB4_(0-2)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:08	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 12:39	B2H0058	S2H0025
22G0955-07	SB4_(2-4)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:10	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 12:41	B2H0058	S2H0025
22G0955-08	SB4_(4-6)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:12	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:02	B2H0058	S2H0025
22G0955-09	SB4_(6-8-2)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:14	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:04	B2H0058	S2H0025
22G0955-10	SB5_(0-2)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:16	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:06	B2H0058	S2H0025
22G0955-11	SB5_(2-4)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:18	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:08	B2H0058	S2H0025
22G0955-12	SB5_(4-6)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:20	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:10	B2H0058	S2H0025
22G0955-13	SB3_(0-2)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:22	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:12	B2H0058	S2H0025
22G0955-14	SB3_(2-4)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:24	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:14	B2H0058	S2H0025
22G0955-15	SB3_(4-6)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:26	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:15	B2H0058	S2H0025
22G0955-16	SB1_(0-6)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:28	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:39	B2H0058	S2H0025
22G0955-17	SB1_(6-12)	07/20/22		Total Solids / Percent Moisture		08/02/22 08:53	08/02/22 09:30	B2H0054	
				Cyanide, Total		08/02/22 08:50	08/02/22 13:41	B2H0058	S2H0025

Quality Control

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Report Date: 08/04/2022
Matrix: Solid

Wet Chemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B2H0054											
Blank (B2H0054-BLK1) <i>Prepared: 08/02/2022 08:53 Analyzed: 08/02/2022 09:32</i>											
Total Solids	< 0.100	0.100	%								1
LCS (B2H0054-BS1) <i>Prepared: 08/02/2022 08:53 Analyzed: 08/02/2022 09:34</i>											
Total Solids	0.205	0.100	%	0.2041		100	85-102				1
Duplicate (B2H0054-DUP1) Source: 22G0955-07 <i>Prepared: 08/02/2022 08:53 Analyzed: 08/02/2022 09:36</i>											
Total Solids	78.3	0.100	%		78.6			0.359	5		1
Duplicate (B2H0054-DUP2) Source: 22G0955-16 <i>Prepared: 08/02/2022 08:53 Analyzed: 08/02/2022 09:38</i>											
Total Solids	65.9	0.100	%		66.2			0.437	5		1
Batch: B2H0058 - SW9010B											
Blank (B2H0058-BLK1) <i>Prepared: 08/02/2022 08:50 Analyzed: 08/02/2022 12:28</i>											
Cyanide	< 0.996	0.996	mg/Kg								1
LCS (B2H0058-BS1) <i>Prepared: 08/02/2022 08:50 Analyzed: 08/02/2022 12:29</i>											
Cyanide	2.42	0.999	mg/Kg	2.497		97.0	85-115				1
Matrix Spike (B2H0058-MS1) Source: 22G0955-07 <i>Prepared: 08/02/2022 08:50 Analyzed: 08/02/2022 13:43</i>											
Cyanide	10.7	0.994	mg/Kg	9.941	0.537	103	80-120				1
Matrix Spike Dup (B2H0058-MSD1) Source: 22G0955-07 <i>Prepared: 08/02/2022 08:50 Analyzed: 08/02/2022 13:45</i>											
Cyanide	10.8	0.998	mg/Kg	9.981	0.537	103	80-120	0.398	20		1
Batch: B2H0095											
Blank (B2H0095-BLK1) <i>Prepared: 08/03/2022 05:10 Analyzed: 08/03/2022 06:00</i>											
Total Solids	< 0.100	0.100	%								1
LCS (B2H0095-BS1) <i>Prepared: 08/03/2022 05:10 Analyzed: 08/03/2022 06:02</i>											
Total Solids	0.203	0.100	%	0.2041		99.7	85-102				1
Duplicate (B2H0095-DUP1) Source: 22H0188-04 <i>Prepared: 08/03/2022 05:10 Analyzed: 08/03/2022 06:04</i>											
Total Solids	88.8	0.100	%		88.9			0.137	5		1
Duplicate (B2H0095-DUP2) Source: 22H0204-29 <i>Prepared: 08/03/2022 05:10 Analyzed: 08/03/2022 06:06</i>											
Total Solids	88.3	0.100	%		87.0			1.48	5		1

Quality Control

(Continued)

Client: CT Laboratories Federal
Project: General Analysis
 Mill Pond
Work Order: 22G0955

Report Date: 08/04/2022
Matrix: Solid

Wet Chemistry

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B2H0117 - SW9010B											
Blank (B2H0117-BLK1)											
<i>Prepared: 08/03/2022 09:05 Analyzed: 08/03/2022 12:59</i>											
Cyanide	< 0.999	0.999	mg/Kg								1
LCS (B2H0117-BS1)											
<i>Prepared: 08/03/2022 09:05 Analyzed: 08/03/2022 13:01</i>											
Cyanide	3.00	0.997	mg/Kg	2.491		120	85-115			S	1
Matrix Spike (B2H0117-MS1)											
Source: 22G0933-01 <i>Prepared: 08/03/2022 09:05 Analyzed: 08/03/2022 15:28</i>											
Cyanide	9.41	0.993	mg/Kg	9.934	ND	94.7	80-120				1
Matrix Spike Dup (B2H0117-MSD1)											
Source: 22G0933-01 <i>Prepared: 08/03/2022 09:05 Analyzed: 08/03/2022 13:10</i>											
Cyanide	10.9	0.993	mg/Kg	9.928	ND	110	80-120	15.1	20		1

Certified Analyses included in this Report

Analyte	CAS #	Certifications
SM2540G in Solid		
Total Solids	Moist	WDNR, DoD
SW9014 in Solid		
Cyanide	57-12-5	DoD, ILEPA, WDNR

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	04/30/2024
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2024
DoD	Department of Defense, Accredited by PJLA	L20-164-R2	03/31/2024
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562021-6	07/27/2023
ISO	ISO/IEC 17025:2017, Accredited by PJLA	L20-165	03/31/2024
NEFAP	TNI National Environmental Field Activities Program	L20-166	03/31/2024
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2022
WA	Washington State Department of Ecology	C1057	01/06/2023
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2022

Qualifiers and Definitions

Item	Description
H	Sample prepared and/ or analyzed past recommended holdtime.
Q	One or more quality control results were outside of the acceptance limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery).
S	The quality control sample recovery is outside of the laboratory control limits.
S1	The percent recovery is above the limits (e.g. LCS recovery, surrogate spike recovery, or CCV recovery), but the analyte was not detected in the sample. Data is acceptable.
%Rec	Percent Recovery
MDL	In the state of Wisconsin MDL is equivalent to LOD; in all other applications MDL is equivalent to MDL. In the state of Wisconsin the Reporting Limit is equivalent to LOQ.



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CT LABORATORIES

delivering more than data from your environmental analyses

22G0955
PM: Tim Witrzek
CT Laboratories Federal
General Analysis

Sub-Contract Lat

The PO# must appear on all invoice and reports!

PURCHASE ORDER #: 170983 EMT

Return Invoice and Results to: ekorthals@ctlaboratories.com

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: EMT
509 N. 3rd Ave.
Des Plaines, IL 60016

Government UPS Shipping Acct? Y N

Ship by: Speedee UPS Grnd UPS 2nd UPS NDA UPS NDA

RUSH TURNAROUND NEEDED? Y or N (Circle One)

Date Due: standard

Project State: WI

Project Name: MILL_POND

OTHER: level 2

Analytical/QC Criteria: NONE INDICATED

STATE

DOD QSM

Excel

Data Deliverable Package LEVEL: level 2

Report results as EDD? N Y (Circle one and indicate type:)

Sample Description

CTLabs ID#	Sample Date/Time	Matrix	Analyses / Method	Cost
1166078	7/20/2022 12:30	SOIL	CYANIDE	
1166095	7/20/2022 12:35	SOIL	CYANIDE	
1166096	7/20/2022 12:40	SOIL	CYANIDE	
1166097	7/20/2022 12:45	SOIL	CYANIDE	
1166098	7/20/2022 12:50	SOIL	CYANIDE	
1166099	7/20/2022 13:15	SOIL	CYANIDE	
1166100 *	7/20/2022 13:20	SOIL	CYANIDE	
1166101	7/20/2022 13:25	SOIL	CYANIDE	
1166102	7/20/2022 13:30	SOIL	CYANIDE	
1166103	7/20/2022 14:45	SOIL	CYANIDE	
1166104	7/20/2022 14:50	SOIL	CYANIDE	
1166105	7/20/2022 14:55	SOIL	CYANIDE	
1166106	7/20/2022 15:45	SOIL	CYANIDE	
1166107	7/20/2022 15:50	SOIL	CYANIDE	
1166108	7/20/2022 15:55	SOIL	CYANIDE	
1166109	7/20/2022 16:15	SOIL	CYANIDE	
1166110	7/20/2022 16:20	SOIL	CYANIDE	

Relinquished by: [Signature] Date/Time: 07-28-22 / 0900 h

Received by: Garif Schuby Date/Time: 07/29/2022 10:30 Receipt Temperature (C) 1.9

COMMENTS: Please use sample description to identify samples rather CT Labs ID #. Percent solids results will be provided by CT Labs due to limited sample amount.

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

* DESIGNATED FOR SAMPLE Q1

Form #: FPM1-01
Effective Date: 02/15/14

Sample Receipt Checklist

Work Order: 22G0955

Printed: 7/29/2022 11:25:55AM

Client: CT Laboratories Federal
Project: General Analysis

Date Due: Friday, August 5, 2022

Received By: Jennifer Schultz
Logged In By: Jennifer Schultz

Date Received: 07/29/22 10:30
Date Logged In: 07/29/22 10:48

How were samples received?	Spee-Dee
Cooler temperature at or below 6 degrees Celsius	Yes
Chain of Custody present and properly completed	Yes
Turn Around Time is indicated and specified	Yes
Chain of Custody agrees with sample labels	Yes
Samples received within hold time	No
Proper sample containers received intact	Yes
Containers properly preserved	No
Sufficient Sample Volume	Yes
Custody seals present	No
Volatile water vials received	No

Sample Receipt Comments
Work Order: 22G0955

The samples were received on 07/29/22 10:30. The temperature of the cooler(s) at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	1.9

Container 01A (SB2_(0-2)) cap was not screwed on properly and water enter the sample container.

Samples going out of hold time within 24 hours:

Reviewed By: JJS

Date: 07/29/2022



22G0955
 PM: Tim Witrzek
 CT Laboratories Federal
 General Analysis

CT LABORATORIES

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Sub-Contract Lab.

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PURCHASE ORDER #: 170983 EMT

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: EMT
 509 N. 3rd Ave.
 Des Plaines, IL 60016

Return Invoice and Results to: ekorthals@ctlaboratories.com

Ship by: Speedee UPS Grnd UPS 2nd UPS NDA N
 Date Due: standard RUSH TURNAROUND NEEDED? Y or N (Circle One)

Project Name: MILL POND Project State: WI

Analytical/QC Criteria: NONE INDICATED STATE (Circle one) DOD QSM NELAP (Circle one) OTHER

Report results as EDD? N Y (Circle one and indicate type: Excel) Data Deliverable Package LEVEL: level 2

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1166078	7/20/2022 12:30	SOIL	SB2_(0-2)	CYANIDE	
1166095	7/20/2022 12:35	SOIL	SB2_(2-4)	CYANIDE	
1166096	7/20/2022 12:40	SOIL	SB2_(2-4) DUP	CYANIDE	
1166097	7/20/2022 12:45	SOIL	SB2_(4-6)	CYANIDE	
1166098	7/20/2022 12:50	SOIL	SB2_(6-8)	CYANIDE	
1166099	7/20/2022 13:15	SOIL	SB4_(0-2)	CYANIDE	
1166100	7/20/2022 13:20	SOIL	SB4_(4-6)	CYANIDE	
1166101	7/20/2022 13:25	SOIL	SB4_(6-8)	CYANIDE	
1166102	7/20/2022 13:30	SOIL	SB5_(0-2)	CYANIDE	
1166103	7/20/2022 14:45	SOIL	SB5_(2-4)	CYANIDE	
1166104	7/20/2022 14:50	SOIL	SB5_(4-6)	CYANIDE	
1166105	7/20/2022 14:55	SOIL	SB3_(0-2)	CYANIDE	
1166106	7/20/2022 15:45	SOIL	SB3_(2-4)	CYANIDE	
1166107	7/20/2022 15:50	SOIL	SB3_(4-6)	CYANIDE	
1166108	7/20/2022 15:55	SOIL	SB1_(0-6)	CYANIDE	
1166109	7/20/2022 16:15	SOIL	SB1_(6-12)	CYANIDE	
1166110	7/20/2022 16:20	SOIL			

Korthals, Eric T

From: Arminta Priddy <apriddy@emt.com>
Sent: 07/29/2022 11:58
To: Korthals, Eric T
Cc: twitrzek@emt.com
Subject: Mill Pond samples
Attachments: COC_20220729_0001.pdf

170983 - 78 of 198

Container 01A (SB2_(0-2)) cap was not screwed on properly and water enter the sample container. See picture below.

Received by:

Eric T. Priddy
 08/02/2022 @11:00 T=2.9°C

Sample Receipt Checklist

Printed: 8/2/2022 11:46:04AM

Work Order: 22G0955

Client: CT Laboratories Federal
Project: General Analysis

Date Due: Friday, August 5, 2022

Cooler: 07/29/2022

Received By: Jennifer Schultz
Logged In By: Jennifer Schultz

Date Received: 07/29/22 10:30
Date Logged In: 07/29/22 10:48

How were samples received? Spee-Dee

Cooler temperature at or below 6 degrees Celsius Yes

Chain of Custody present and properly completed Yes

Turn Around Time is indicated and specified Yes

Chain of Custody agrees with sample labels Yes

Samples received within hold time No

Proper sample containers received intact Yes

Sufficient Sample Volume Yes

Containers properly preserved No

Custody seals present No

Volatile water vials received No

Sample Receipt Comments

Work Order: 22G0955

The samples were received on 07/29/22 10:30. The temperature of the cooler(s) at receipt was:

Cooler	Temp C°
Default Cooler	1.9

Container 01A (SB2_(0-2)) cap was not screwed on properly and water enter the sample container.

Additional sample 01A was received on 08/02/2022 at 11:00am.

Tracking Number: SP007741032092257878

Reviewed By: JIS Date: 08/02/2022

Sample Receipt Checklist

Printed: 8/2/2022 11:46:04AM

Work Order: 22G0955

Client: CT Laboratories Federal Project: General Analysis	Date Due: Friday, August 5, 2022
--	----------------------------------

Cooler: 08/02/2022

Received By: Jennifer Schultz
Logged In By: Jennifer Schultz

Date Received: 07/29/22 10:30
Date Logged In: 07/29/22 10:48

How were samples received?	Spee-Dee
Cooler temperature at or below 6 degrees Celsius	Yes
Chain of Custody present and properly completed	Yes
Turn Around Time is indicated and specified	Yes
Chain of Custody agrees with sample labels	Yes
Samples received within hold time	No
Proper sample containers received intact	Yes
Sufficient Sample Volume	Yes
Containers properly preserved	No
Custody seals present	No
Volatile water vials received	No

Tracking Number: SP007741032132222606

Reviewed By: JS Date: 08/02/2022

ANALYTICAL REPORT

Client: CT Laboratories, LLC
 Attn: Eric Korthals
 1230 Lange Court
 Baraboo, WI 53913 3109

NLS Project: 389232

NLS Customer: 91430

Fax: 608 356 2766 Phone: 608 356 2760

Project: 170983 NLS

SB2 (0-2) NLS ID: 1326827

Matrix: SL
 Collected: 07/20/22 12:30 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	[360]	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 91%							
Solids, total on solids	84.9	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB2 (2-4) NLS ID: 1326828

Matrix: SL
 Collected: 07/20/22 12:35 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	[410]	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 91%							
Solids, total on solids	89.7	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB2 (2-4) DUP NLS ID: 1326829

Matrix: SL
 Collected: 07/20/22 12:40 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	[200]	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 91%							
Solids, total on solids	84.4	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB2 (4-6) NLS ID: 1326830

Matrix: SL
 Collected: 07/20/22 12:45 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	[380]	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 91%							
Solids, total on solids	83.2	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB2 (6-8) NLS ID: 1326831

Matrix: SL
 Collected: 07/20/22 12:50 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	1700	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 91%							
Solids, total on solids	74.3	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB4 (0-2) NLS ID: 1326832

Matrix: SL
 Collected: 07/20/22 13:15 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	960	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 91%							
Solids, total on solids	70.7	%	1	0.10*		08/01/22	EPA 8000C	157066030

ANALYTICAL REPORT

Client: CT Laboratories, LLC
 Attn: Eric Korthals
 1230 Lange Court
 Baraboo, WI 53913 3109

NLS Project: 389232

NLS Customer: 91430

Fax: 608 356 2766 Phone: 608 356 2760

Project: 170983 NLS

SB4 (2-4) NLS ID: 1326833

Matrix: SL
 Collected: 07/20/22 13:20 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	810	mg/Kg DWB	1	190	640	08/02/22	EPA 1664M	721026460
Blank = 0 mg/Kg, OPR = 91%, and Matrix Spike = 109%								
Solids, total on solids	79.5	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB4 (4-6) NLS ID: 1326834

Matrix: SL
 Collected: 07/20/22 13:25 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	1300	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
Blank = 0 mg/Kg and OPR = 92%								
Solids, total on solids	73.4	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB4 (6-8) NLS ID: 1326835

Matrix: SL
 Collected: 07/20/22 13:30 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	1700	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
Blank = 0 mg/Kg and OPR = 92%								
Solids, total on solids	78.5	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB5 (0-2) NLS ID: 1326836

Matrix: SL
 Collected: 07/20/22 14:45 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	ND	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
Blank = 0 mg/Kg and OPR = 92%								
Solids, total on solids	86.4	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB5 (2-4) NLS ID: 1326837

Matrix: SL
 Collected: 07/20/22 14:50 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	[220]	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
Blank = 0 mg/Kg and OPR = 92%								
Solids, total on solids	86.6	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB5 (4-6) NLS ID: 1326838

Matrix: SL
 Collected: 07/20/22 14:55 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	[500]	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
Blank = 0 mg/Kg and OPR = 92%								
Solids, total on solids	87.3	%	1	0.10*		08/01/22	EPA 8000C	157066030

ANALYTICAL REPORT

Client: CT Laboratories, LLC
 Attn: Eric Korthals
 1230 Lange Court
 Baraboo, WI 53913 3109

NLS Project: 389232

NLS Customer: 91430

Fax: 608 356 2766 **Phone:** 608 356 2760

Project: 170983 NLS

SB3 (0-2) NLS ID: 1326839

Matrix: SL
 Collected: 07/20/22 15:45 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	1300	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 92%							
Solids, total on solids	51.3	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB3 (2-4) NLS ID: 1326840

Matrix: SL
 Collected: 07/20/22 15:50 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	1500	mg/Kg DWB	1	190	640	08/03/22	EPA 1664M	721026460
	Blank = 0 mg/Kg, OPR = 92%, and Matrix Spike = 147%							
Solids, total on solids	54.9	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB3 (4-6) NLS ID: 1326841

Matrix: SL
 Collected: 07/20/22 15:55 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	1400	mg/Kg DWB	1	190	640	08/08/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 93%							
Solids, total on solids	60.3	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB1 (0-6) NLS ID: 1326842

Matrix: SL
 Collected: 07/20/22 16:15 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	2100	mg/Kg DWB	1	190	640	08/08/22	EPA 1664M	721026460
	Blank = 0 mg/Kg, OPR = 93%, and Matrix Spike = 210% The matrix spike recovered above quality control limits due to a non-homogeneous sample.							
Solids, total on solids	62.5	%	1	0.10*		08/01/22	EPA 8000C	157066030

SB1 (6-12) NLS ID: 1326843

Matrix: SL
 Collected: 07/20/22 16:20 Received: 07/29/22

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Oil & grease (solid)	2700	mg/Kg DWB	1	190	640	08/08/22	EPA 1664M	721026460
	Blank = 0 mg/Kg and OPR = 93%							
Solids, total on solids	62.6	%	1	0.10*		08/01/22	EPA 8000C	157066030

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President

ANALYTICAL REPORT

CT Laboratories
Attn: Mr. Eric Korthals
1230 Lange Court
Baraboo, WI 53913
ekorthals@ctlaboratories.com

PROJECT NAME: Mill Pond, WI			
REPORT DATE:	08/15/22	CT LABS PO #	170983 MITECH
ANALYSIS:	HYDROMETER	MI-TECH #	12312
METHOD:	ASTM D7928 / D6913	DATE RECEIVED:	07/29/22

Dear Mr. Korthals:

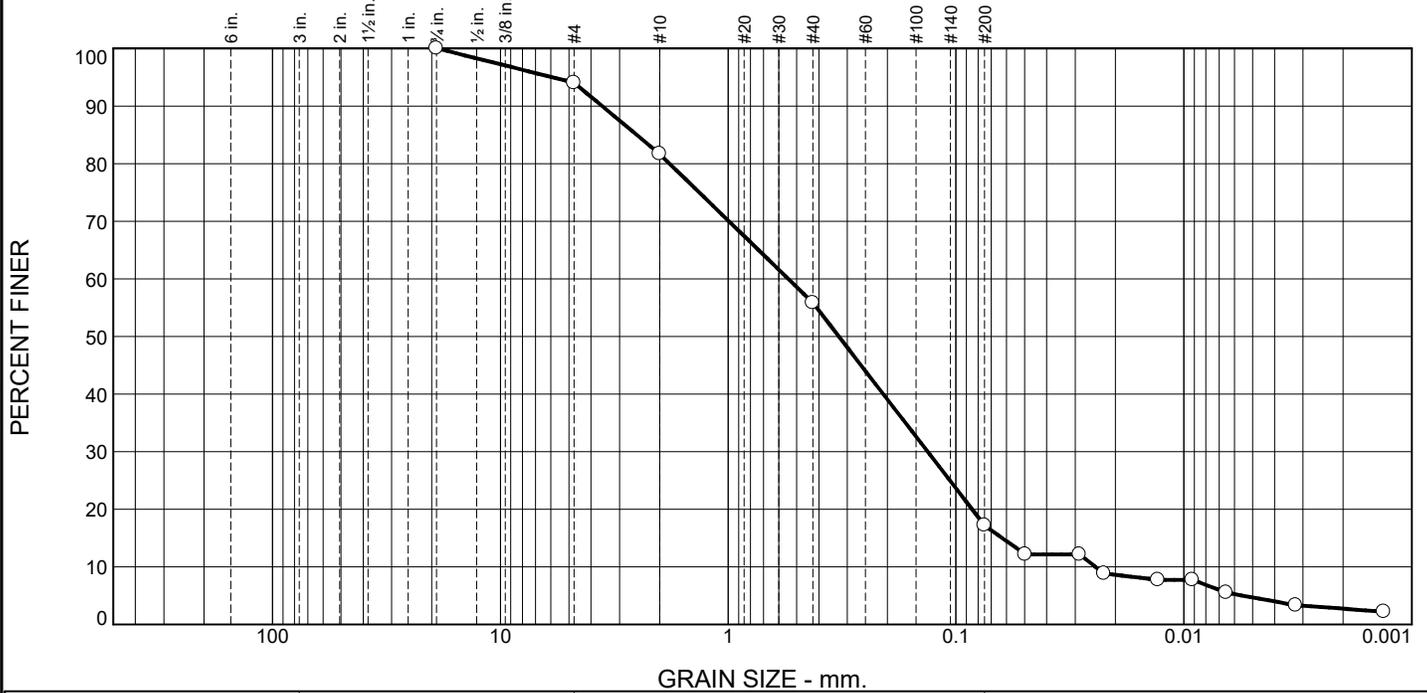
Analytical results for the above referenced project are enclosed. Thank you for your business.

Sincerely,
Mi-Tech Services, Inc.



Stephanie M. Finamore, M.S., P.G.
Environmental Manager

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.0	12.3	25.9	38.6	12.5	4.7

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	94.0		
#10	81.7		
#40	55.8		
#200	17.2		
0.0497 mm.	12.1		
0.0287 mm.	12.1		
0.0224 mm.	8.8		
0.0130 mm.	7.7		
0.0092 mm.	7.7		
0.0065 mm.	5.5		
0.0032 mm.	3.3		
0.0013 mm.	2.2		

* (no specification provided)

Client Sample Description

SB2_(0-2)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D₉₀= 3.5816 D₈₅= 2.5247 D₆₀= 0.5457
D₅₀= 0.3272 D₃₀= 0.1333 D₁₅= 0.0628
D₁₀= 0.0244 C_u= 22.32 C_c= 1.33

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

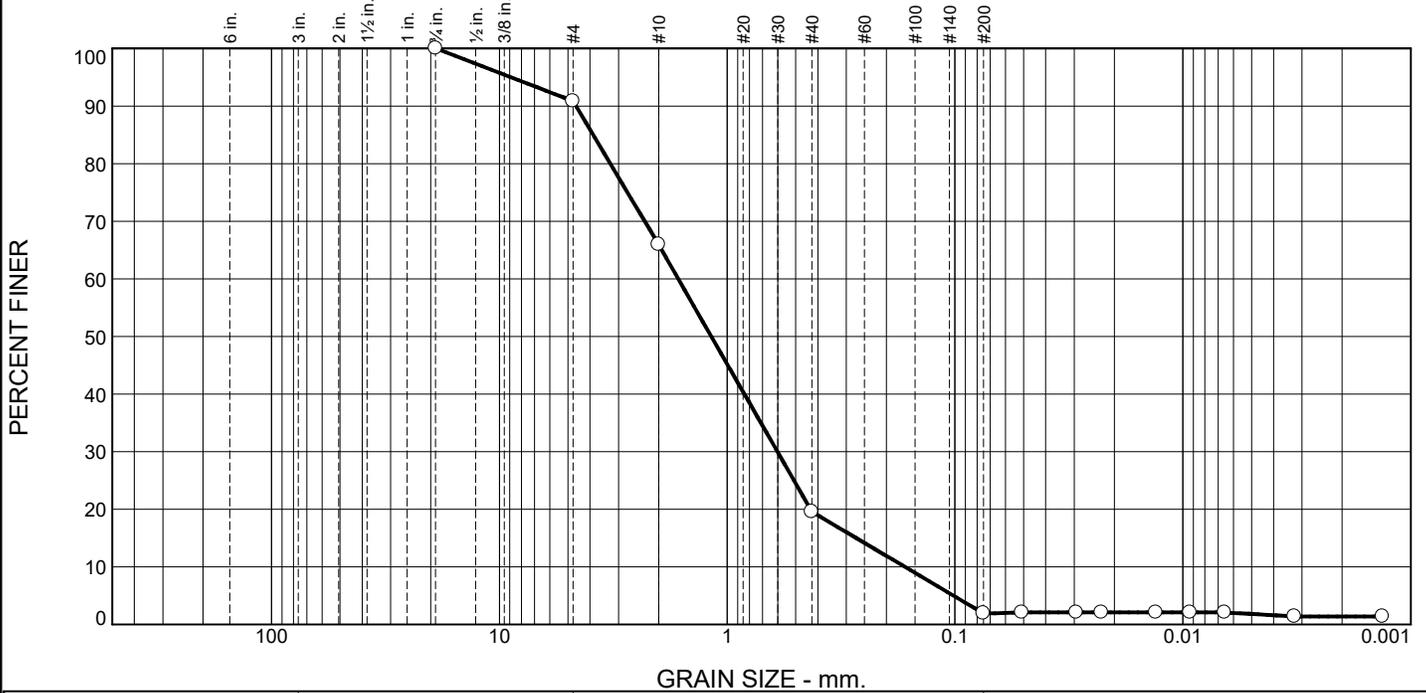
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166078

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 1	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	9.1	25.0	46.3	17.7	0.1	1.8

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	90.9		
#10	65.9		
#40	19.6		
#200	1.9		
0.0508 mm.	2.1		
0.0293 mm.	2.1		
0.0227 mm.	2.1		
0.0131 mm.	2.1		
0.0093 mm.	2.1		
0.0066 mm.	2.1		
0.0032 mm.	1.4		
0.0013 mm.	1.4		

* (no specification provided)

Client Sample Description

SB2_(2-4)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SW AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 4.6116 D₈₅= 3.8769 D₆₀= 1.6406
D₅₀= 1.1748 D₃₀= 0.6023 D₁₅= 0.2716
D₁₀= 0.1663 C_u= 9.87 C_c= 1.33

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

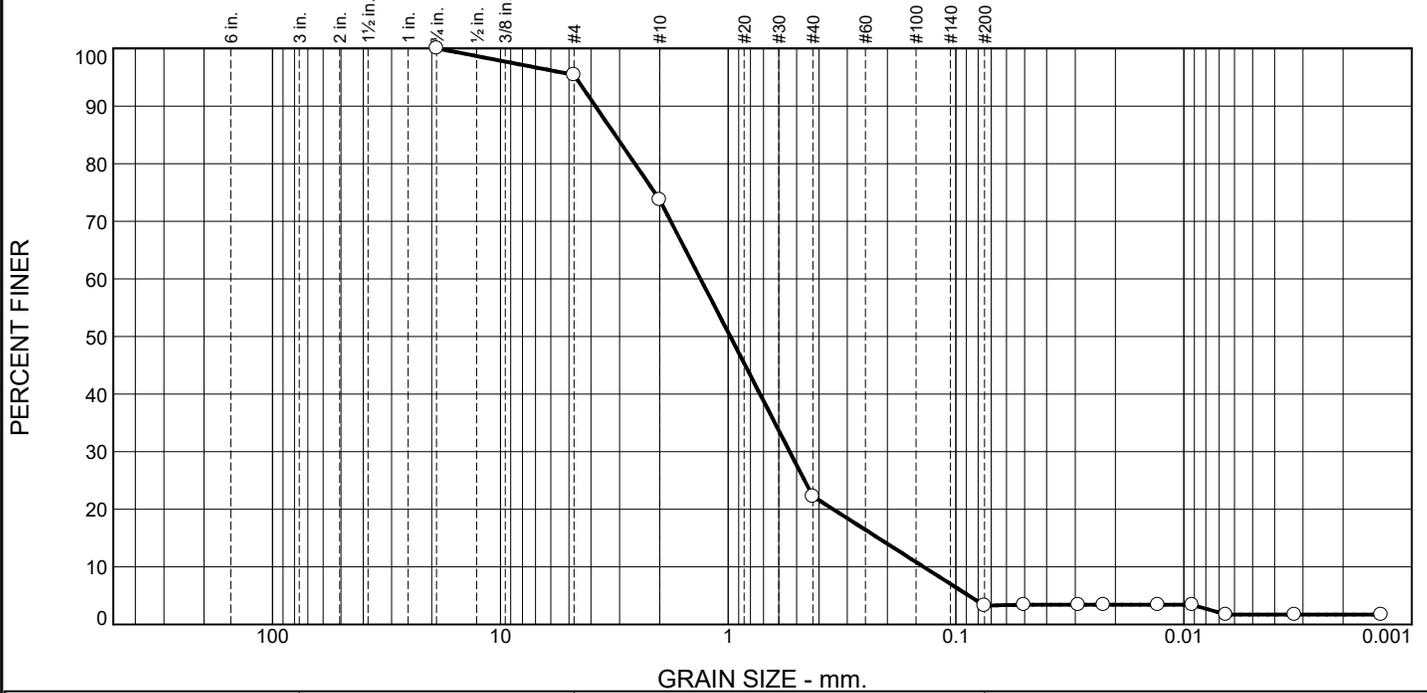
Title: ENVIRONMENTAL MANAAGER

Sample Number: 1166095

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 2	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.6	21.7	51.5	18.9	1.6	1.7

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	95.4		
#10	73.7		
#40	22.2		
#200	3.3		
0.0503 mm.	3.4		
0.0290 mm.	3.4		
0.0225 mm.	3.4		
0.0130 mm.	3.4		
0.0092 mm.	3.4		
0.0065 mm.	1.7		
0.0033 mm.	1.7		
0.0014 mm.	1.7		

* (no specification provided)

Client Sample Description

SB2_(2-4) DUP

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SW AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 3.8304 D₈₅= 3.1377 D₆₀= 1.3240
D₅₀= 0.9801 D₃₀= 0.5370 D₁₅= 0.2196
D₁₀= 0.1390 C_u= 9.52 C_c= 1.57

Remarks

Date Received: 8/02/2022 Date Tested: 8/02/2022

Tested By: CZ/NW

Checked By: SMF

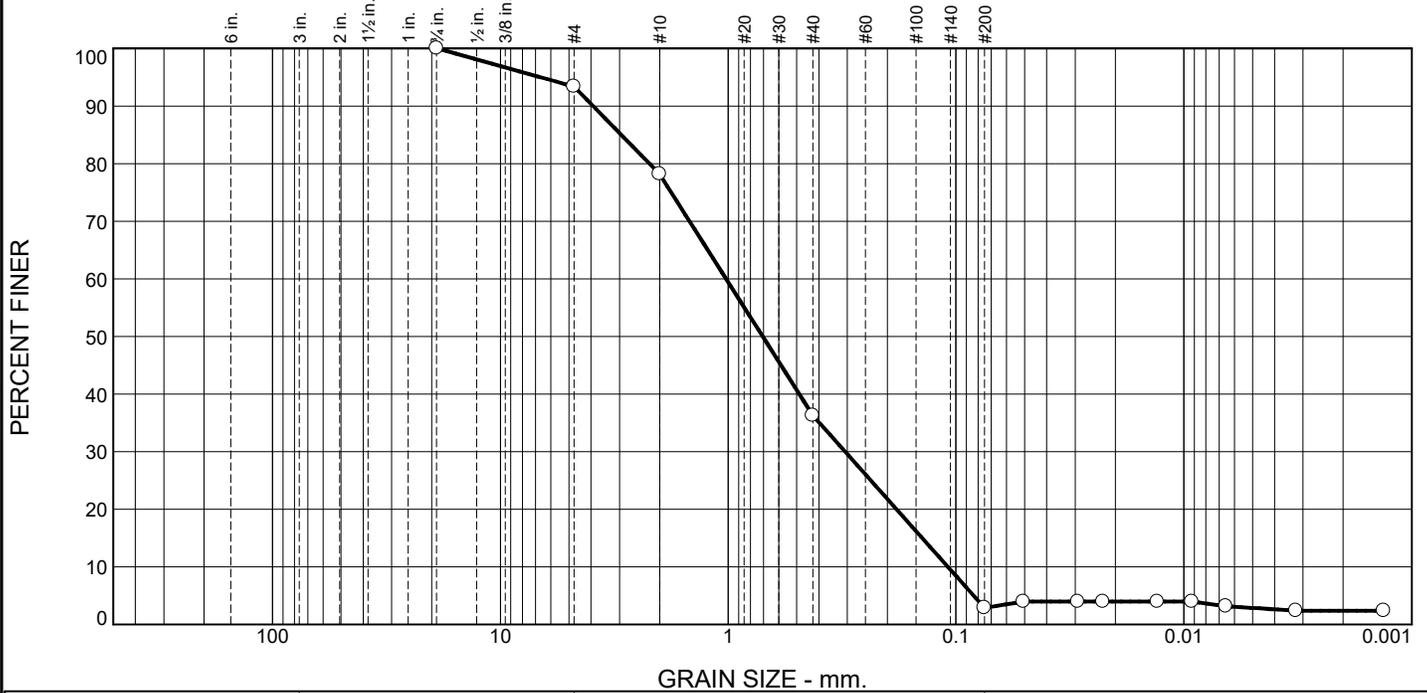
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166096

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 3	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.6	15.2	41.9	33.4	0.0	2.9

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#4	93.4		
#10	78.2		
#40	36.3		
#200	2.9		
0.0505 mm.	4.0		
0.0292 mm.	4.0		
0.0226 mm.	4.0		
0.0130 mm.	4.0		
0.0092 mm.	4.0		
0.0065 mm.	3.2		
0.0032 mm.	2.4		
0.0013 mm.	2.4		

* (no specification provided)

Client Sample Description

SB2_(4-6)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SP AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 3.9233 D₈₅= 2.9509 D₆₀= 1.0219
D₅₀= 0.7062 D₃₀= 0.3070 D₁₅= 0.1408
D₁₀= 0.1086 C_u= 9.41 C_c= 0.85

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

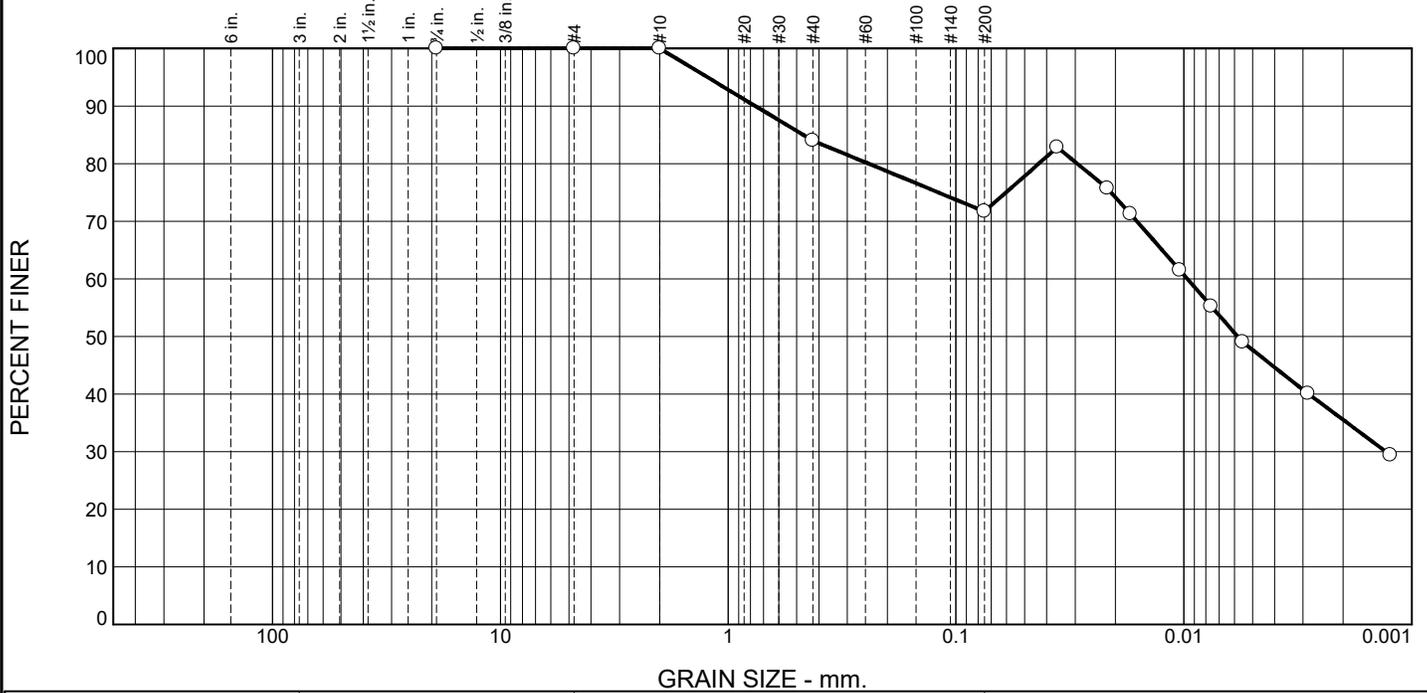
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166097

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 4	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	16.0	12.3	24.0	47.7

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#4	100.0		
#10	100.0		
#40	84.0		
#200	71.7		
0.0360 mm.	82.8		
0.0216 mm.	75.7		
0.0172 mm.	71.3		
0.0104 mm.	61.5		
0.0076 mm.	55.2		
0.0055 mm.	49.0		
0.0029 mm.	40.1		
0.0012 mm.	29.4		

* (no specification provided)

Client Sample Description

SB2_(6-8)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= ML AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 0.7611 D₈₅= 0.4695 D₆₀= 0.0097
D₅₀= 0.0058 D₃₀= 0.0013 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 8/02/2022 Date Tested: 8/02/2022

Tested By: CZ/NW

Checked By: SMF

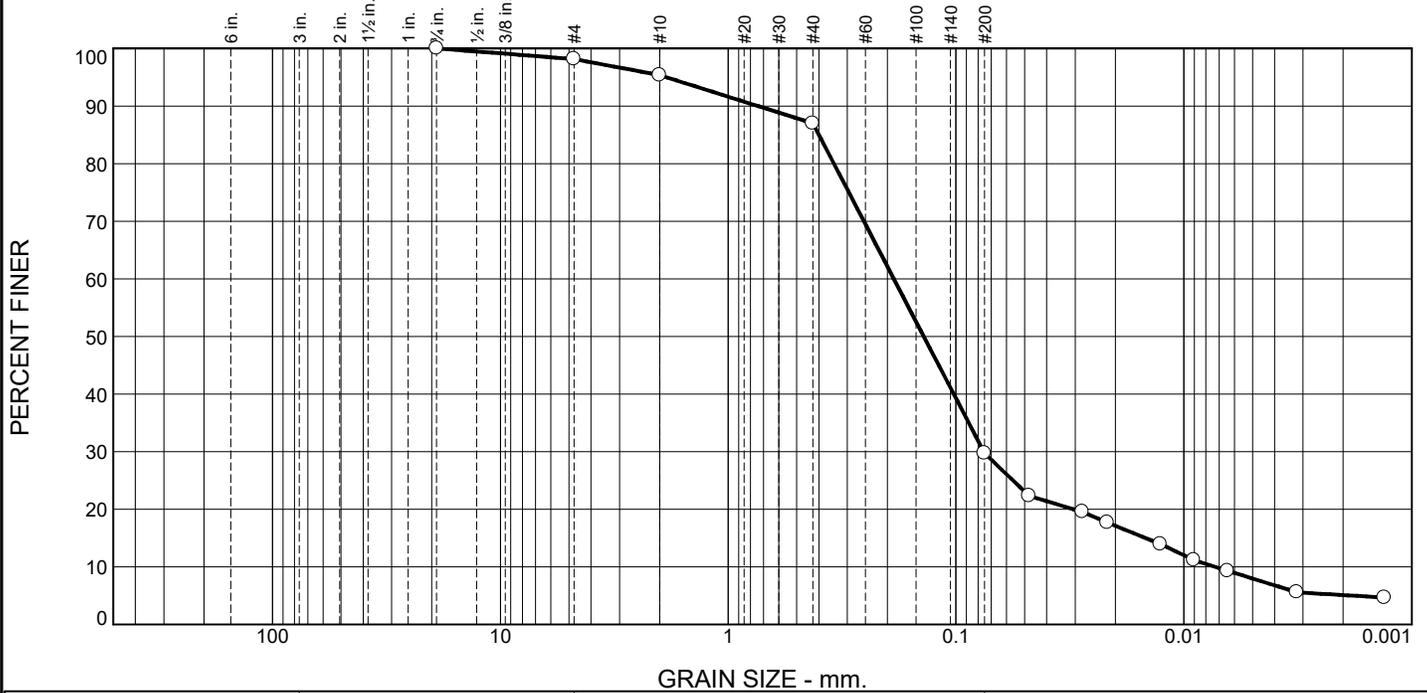
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166098

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 5	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.9	2.7	8.4	57.3	21.7	8.0

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	98.1		
#10	95.4		
#40	87.0		
#200	29.7		
0.0478 mm.	22.3		
0.0279 mm.	19.5		
0.0217 mm.	17.7		
0.0127 mm.	13.9		
0.0090 mm.	11.2		
0.0064 mm.	9.3		
0.0032 mm.	5.6		
0.0013 mm.	4.6		

* (no specification provided)

Client Sample Description

SB4_(0-2)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D₉₀= 0.7426 D₈₅= 0.4002 D₆₀= 0.1877
D₅₀= 0.1386 D₃₀= 0.0756 D₁₅= 0.0148
D₁₀= 0.0073 C_u= 25.67 C_c= 4.17

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

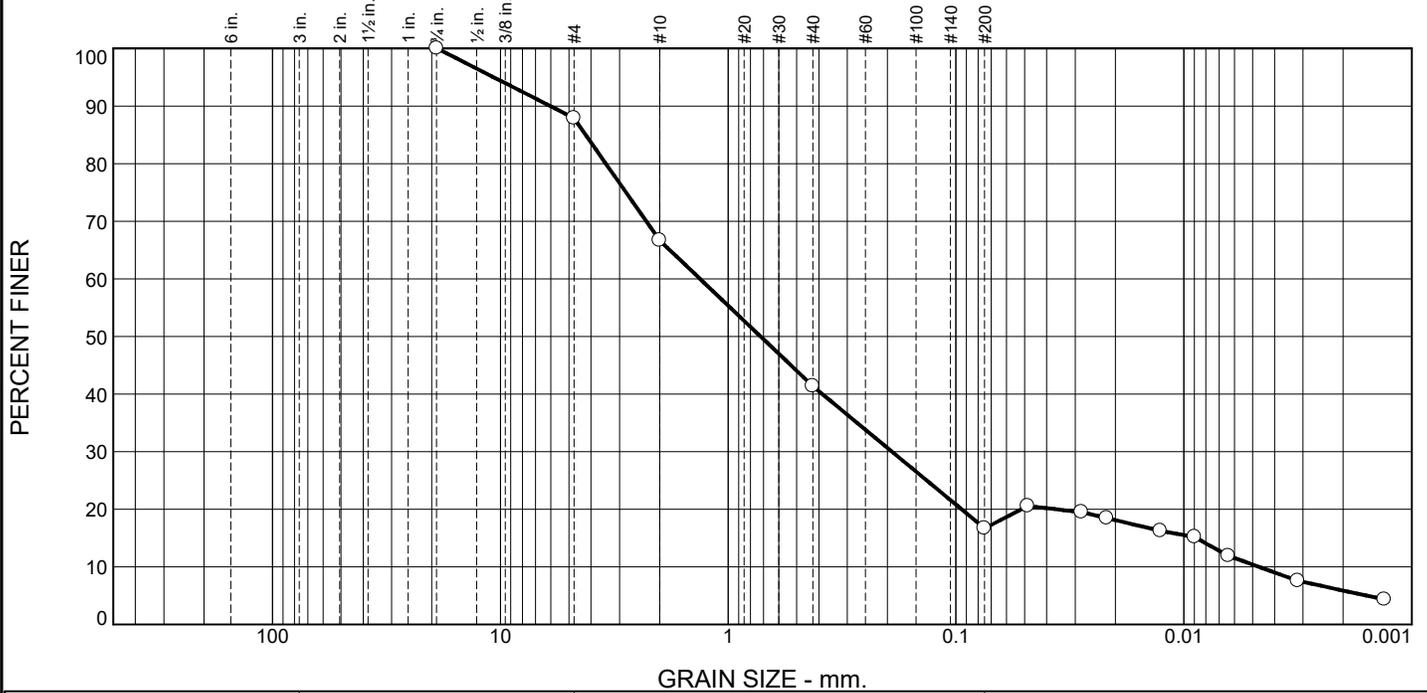
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166099

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Client: CT Laboratories</td> <td style="width: 50%;"></td> </tr> <tr> <td>Project: Mill Pond, WI</td> <td></td> </tr> <tr> <td>Project No: 12312 (PO #170983)</td> <td style="text-align: right;">Figure 6</td> </tr> </table>	Client: CT Laboratories		Project: Mill Pond, WI		Project No: 12312 (PO #170983)	Figure 6
Client: CT Laboratories							
Project: Mill Pond, WI							
Project No: 12312 (PO #170983)	Figure 6						

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	12.1	21.2	25.4	24.6	6.3	10.4

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	87.9		
#10	66.7		
#40	41.3		
#200	16.7		
0.0485 mm.	20.6		
0.0281 mm.	19.5		
0.0218 mm.	18.5		
0.0127 mm.	16.2		
0.0090 mm.	15.1		
0.0064 mm.	11.9		
0.0032 mm.	7.6		
0.0013 mm.	4.3		

* (no specification provided)

Client Sample Description

SB4_(4-6)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 6.0533 D₈₅= 4.2235 D₆₀= 1.3299
D₅₀= 0.7214 D₃₀= 0.1914 D₁₅= 0.0088
D₁₀= 0.0047 C_u= 283.55 C_c= 5.87

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

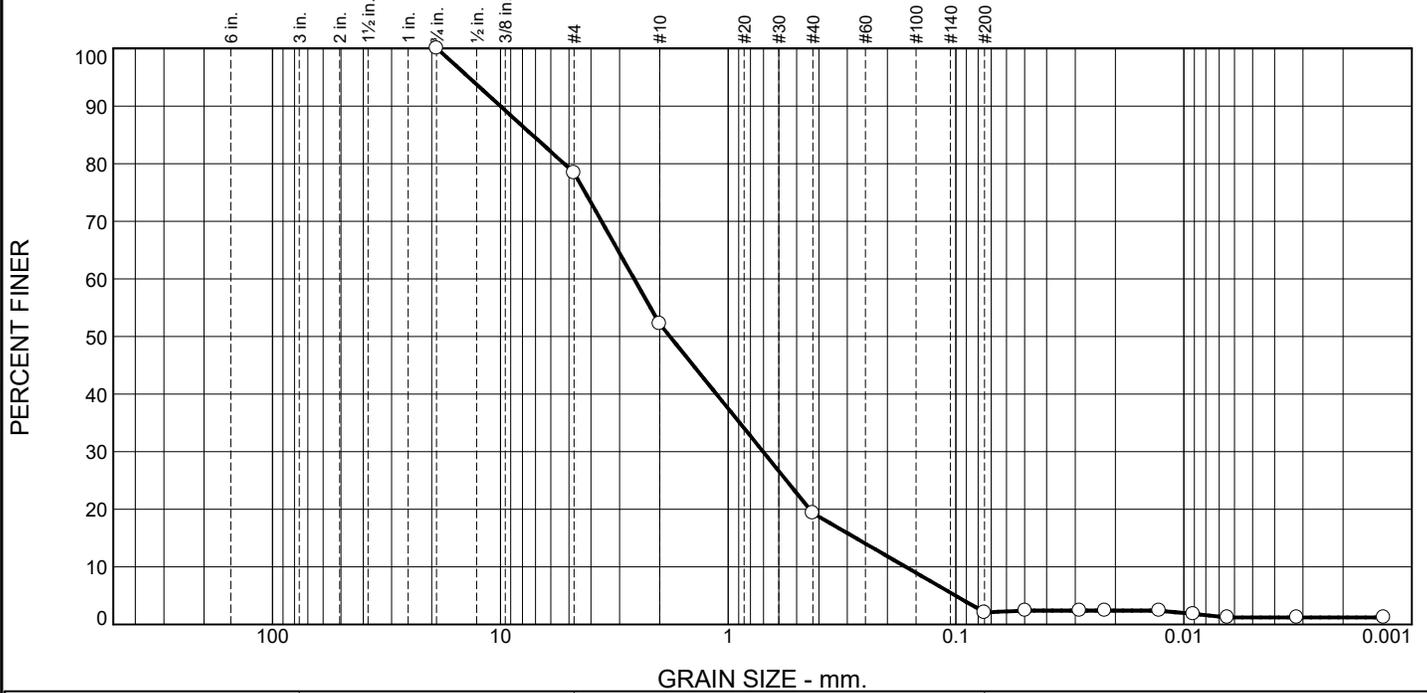
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166101

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 8	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	21.6	26.2	32.9	17.2	0.9	1.2

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	78.4		
#10	52.2		
#40	19.3		
#200	2.1		
0.0497 mm.	2.4		
0.0287 mm.	2.4		
0.0222 mm.	2.4		
0.0128 mm.	2.4		
0.0091 mm.	1.8		
0.0064 mm.	1.2		
0.0032 mm.	1.2		
0.0013 mm.	1.2		

* (no specification provided)

Client Sample Description

SB5_(0-2)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SW AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 10.0032 **D₈₅**= 7.2583 **D₆₀**= 2.5886
D₅₀= 1.8044 **D₃₀**= 0.7033 **D₁₅**= 0.2755
D₁₀= 0.1666 **C_u**= 15.54 **C_c**= 1.15

Remarks

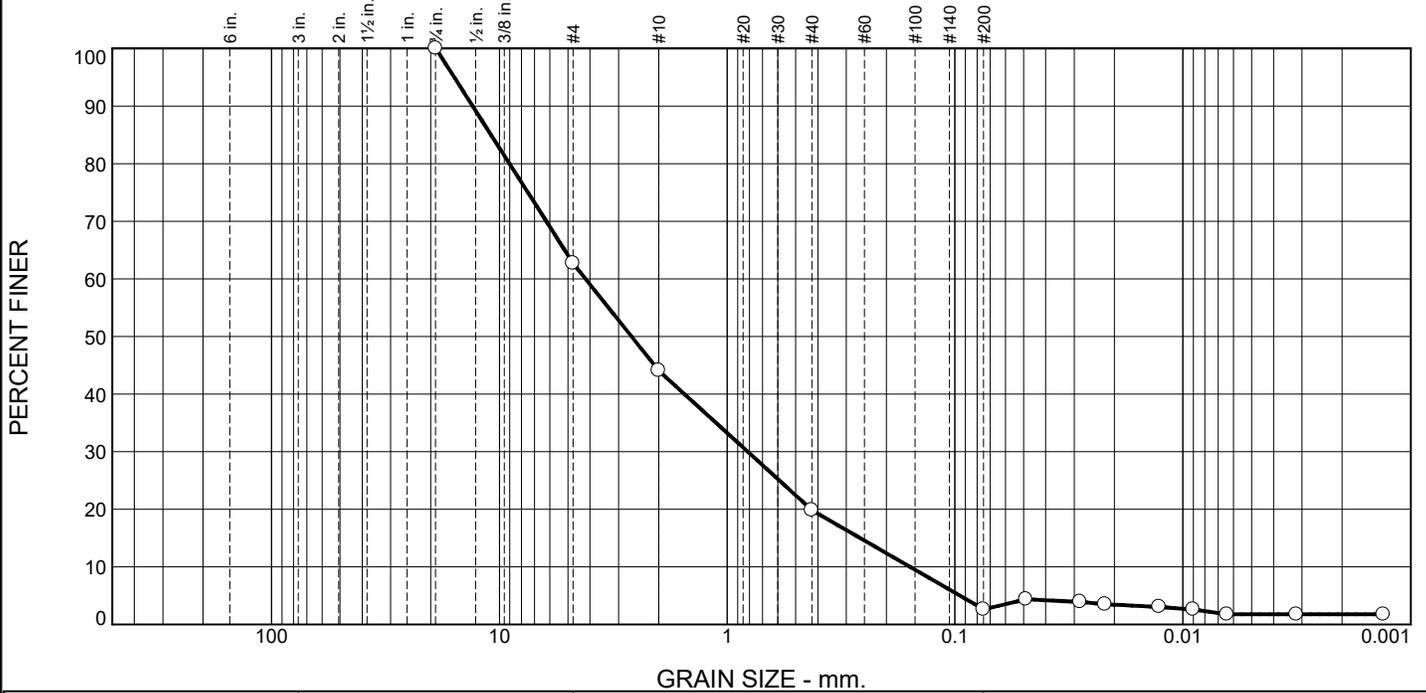
Date Received: 7/29/2022 **Date Tested:** 7/29/2022
Tested By: CZ/NW
Checked By: SMF
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166103

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 10	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	37.3	18.6	24.3	17.2	0.9	1.7

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	62.7		
#10	44.1		
#40	19.8		
#200	2.6		
0.0488 mm.	4.3		
0.0283 mm.	3.9		
0.0220 mm.	3.5		
0.0127 mm.	3.0		
0.0090 mm.	2.6		
0.0064 mm.	1.7		
0.0032 mm.	1.7		
0.0013 mm.	1.7		

* (no specification provided)

Client Sample Description

SB5_(2-4)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SW AASHTO (M 145)= A-1-a

Coefficients

D₉₀= 13.1027 D₈₅= 10.8809 D₆₀= 4.1905
D₅₀= 2.6326 D₃₀= 0.8137 D₁₅= 0.2613
D₁₀= 0.1579 C_u= 26.54 C_c= 1.00

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

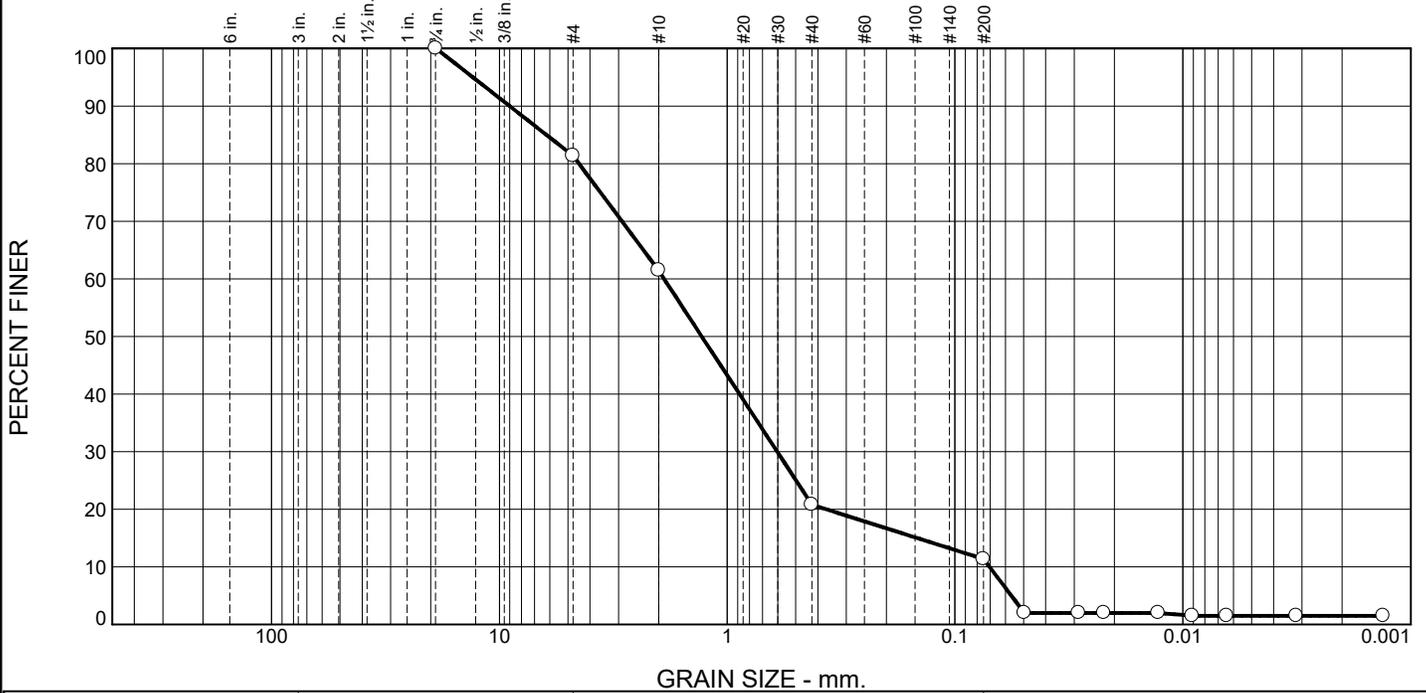
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166104

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 11	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	18.6	19.9	40.7	9.5	9.8	1.5

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	81.4		
#10	61.5		
#40	20.8		
#200	11.3		
0.0497 mm.	2.0		
0.0287 mm.	2.0		
0.0222 mm.	2.0		
0.0128 mm.	2.0		
0.0091 mm.	1.5		
0.0064 mm.	1.5		
0.0032 mm.	1.5		
0.0013 mm.	1.5		

* (no specification provided)

Client Sample Description

SB5_(4-6)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SW-SM AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 9.0277 D₈₅= 6.2229 D₆₀= 1.8922
D₅₀= 1.2931 D₃₀= 0.6039 D₁₅= 0.1469
D₁₀= 0.0707 C_u= 26.77 C_c= 2.73

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

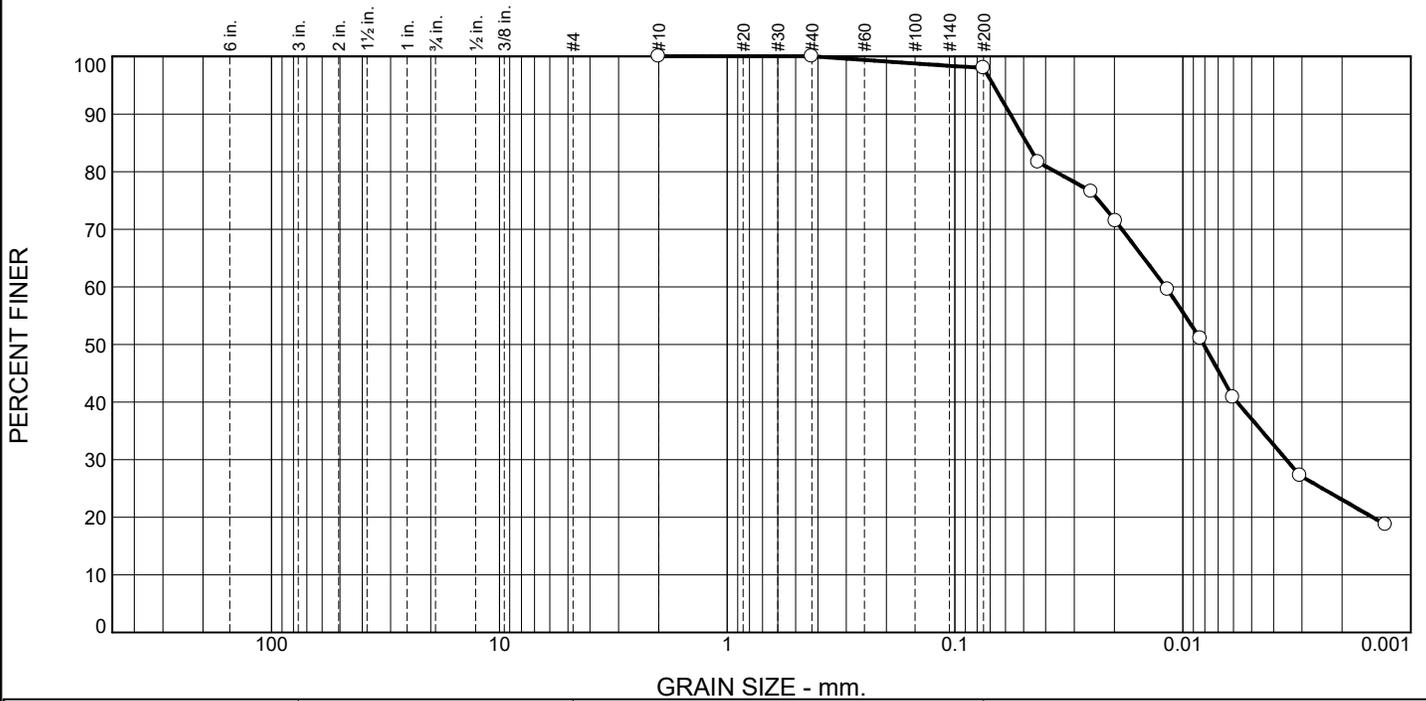
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166105

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 12	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	2.0	60.9	37.1

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#10	100.0		
#40	100.0		
#200	98.0		
0.0432 mm.	81.6		
0.0252 mm.	76.5		
0.0197 mm.	71.4		
0.0117 mm.	59.5		
0.0084 mm.	51.0		
0.0060 mm.	40.8		
0.0031 mm.	27.2		
0.0013 mm.	18.7		

* (no specification provided)

Client Sample Description

SB3_(0-2)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= ML AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 0.0573 D₈₅= 0.0484 D₆₀= 0.0119
D₅₀= 0.0081 D₃₀= 0.0035 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

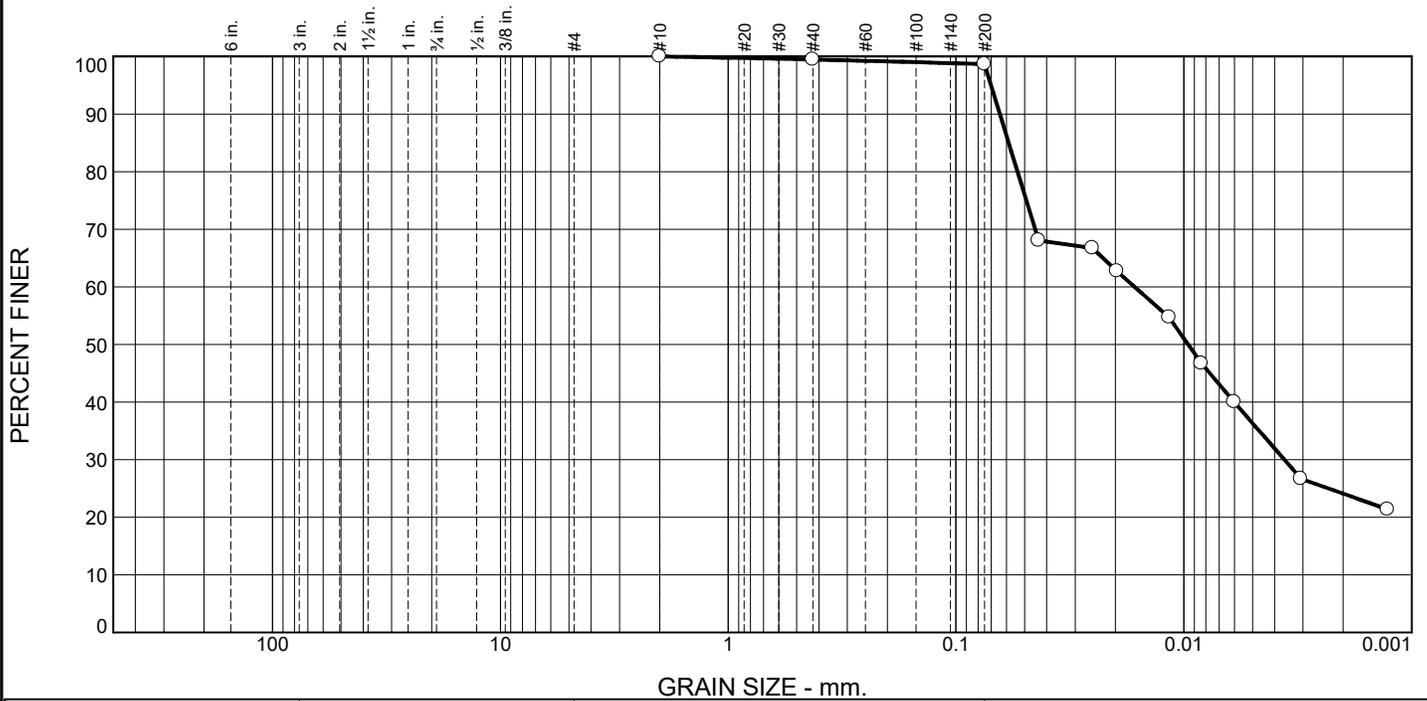
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166106

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 13	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.5	0.8	62.4	36.3

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#10	100.0		
#40	99.5		
#200	98.7		
0.0434 mm.	68.0		
0.0252 mm.	66.7		
0.0197 mm.	62.7		
0.0116 mm.	54.7		
0.0084 mm.	46.7		
0.0060 mm.	40.0		
0.0031 mm.	26.7		
0.0013 mm.	21.3		

* (no specification provided)

Client Sample Description

SB3_(2-4)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= ML AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 0.0643 D₈₅= 0.0588 D₆₀= 0.0165
D₅₀= 0.0096 D₃₀= 0.0036 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

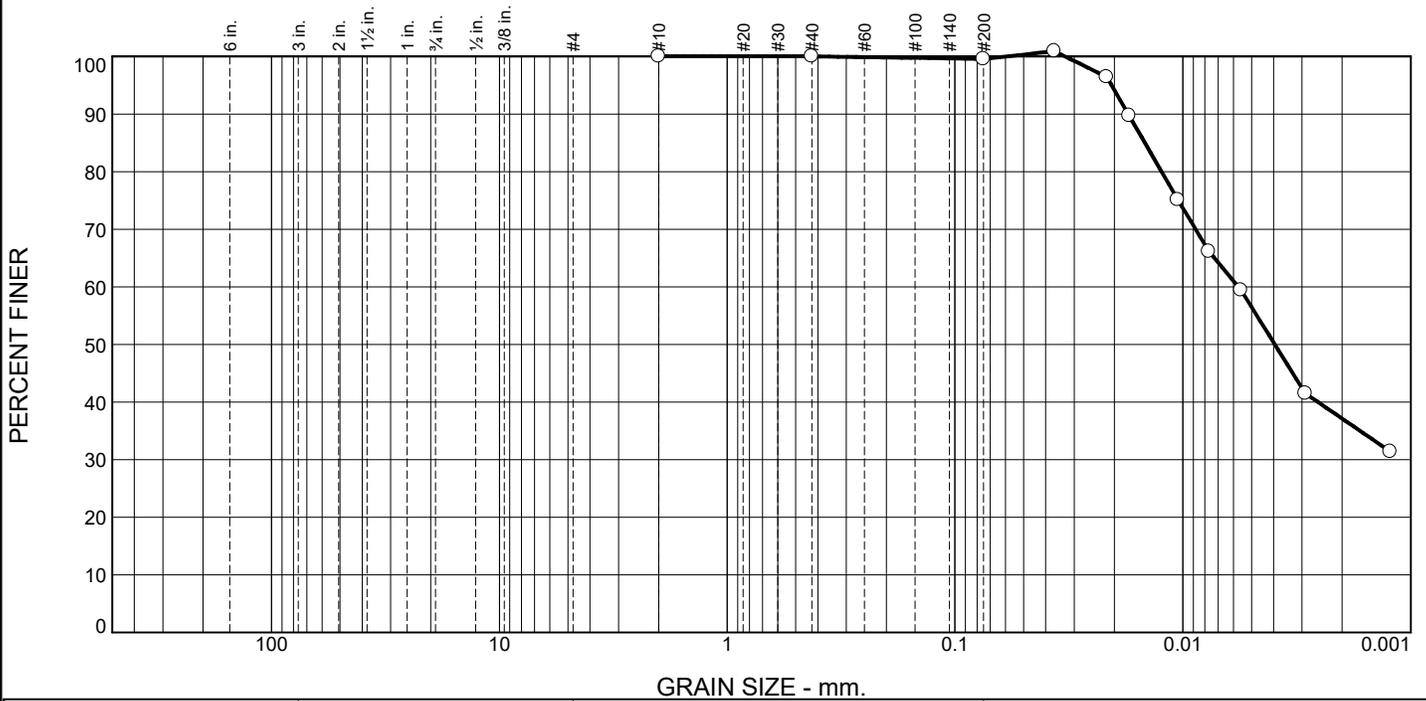
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166107

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 14	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
				0.0	0.4	43.1	56.5

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#10	100.0		
#40	100.0		
#200	99.6		
0.036 mm.	100.9		
0.025 mm.	96.4		
0.018 mm.	89.7		
0.015 mm.	75.1		
0.010 mm.	66.1		
0.0075 mm.	59.4		
0.005 mm.	41.5		
0.0025 mm.	31.4		
0.0012 mm.	31.4		

* (no specification provided)

Client Sample Description

SB3_(4-6)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 0.0174 D₈₅= 0.0147 D₆₀= 0.0057
D₅₀= 0.0040 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

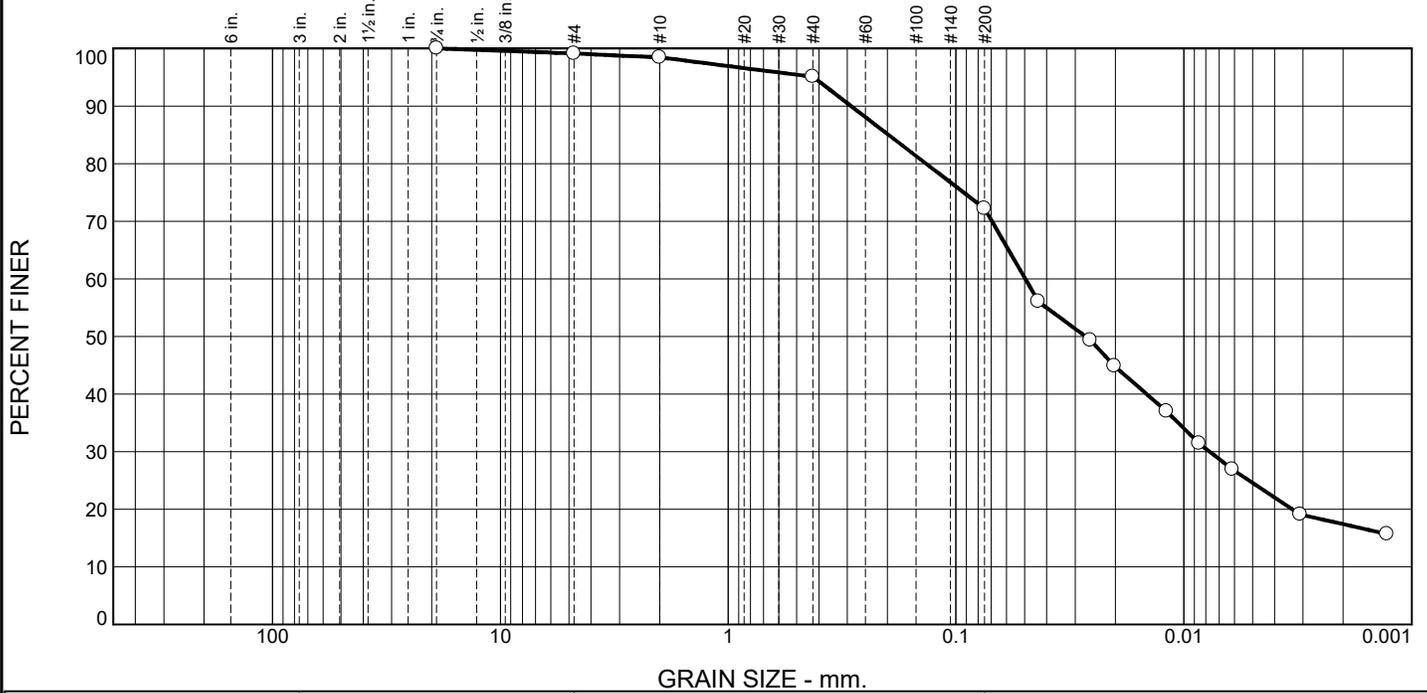
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166108

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 15	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.9	0.7	3.3	22.9	47.6	24.6

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
#4	99.1		
#10	98.4		
#40	95.1		
#200	72.2		
0.0436 mm.	56.1		
0.0257 mm.	49.3		
0.0202 mm.	44.9		
0.0119 mm.	37.0		
0.0086 mm.	31.4		
0.0061 mm.	26.9		
0.0031 mm.	19.1		
0.0013 mm.	15.7		

* (no specification provided)

Client Sample Description

SB1_(0-6)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= ML AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 0.2894 D₈₅= 0.1981 D₆₀= 0.0497
D₅₀= 0.0271 D₃₀= 0.0077 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

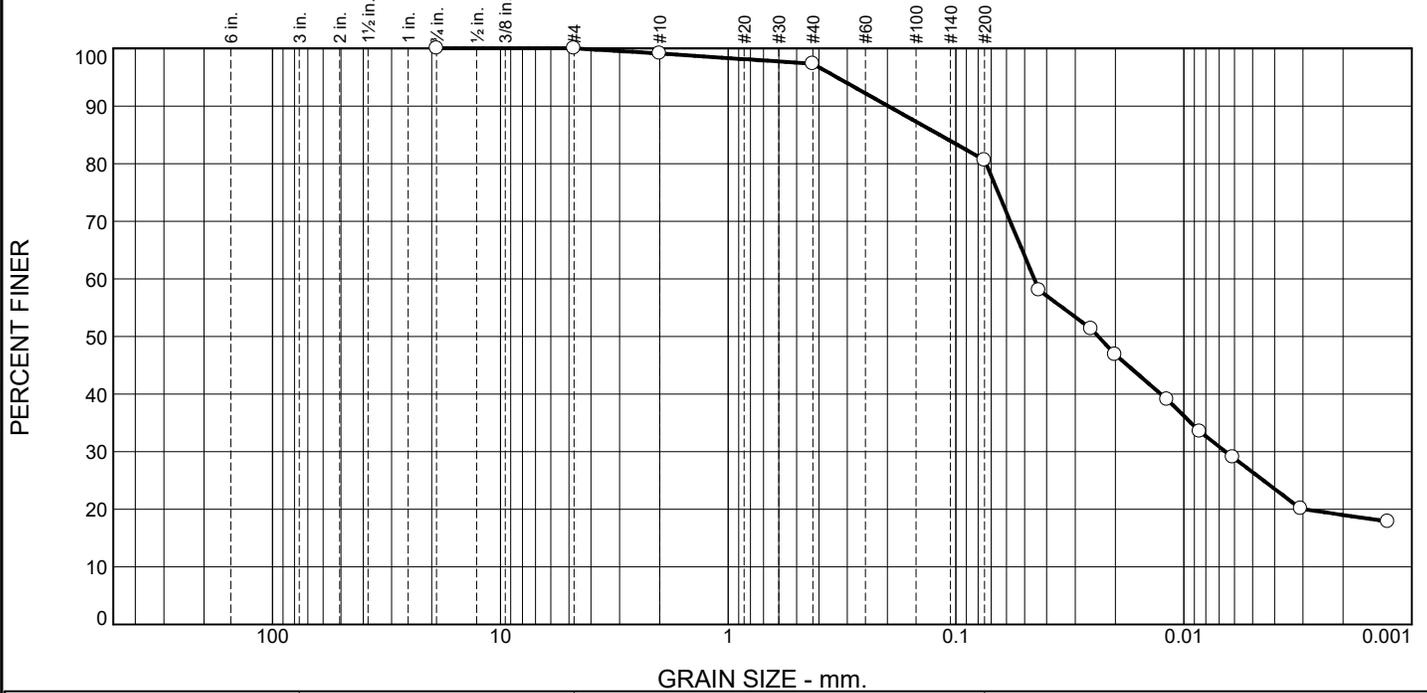
Title: ENVIRONMENTAL MANAGER

Sample Number: 1166109

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 16	

Particle Size Distribution Report - Hydrometer Method



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.9	1.8	16.7	54.2	26.4

Test Results (ASTMS D7928, D6913 & D1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#4	100.0		
#10	99.1		
#40	97.3		
#200	80.6		
0.0433 mm.	58.0		
0.0255 mm.	51.3		
0.0200 mm.	46.9		
0.0119 mm.	39.0		
0.0085 mm.	33.5		
0.0061 mm.	29.0		
0.0031 mm.	20.1		
0.0013 mm.	17.8		

* (no specification provided)

Client Sample Description

SB1_(6-12)

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= ML AASHTO (M 145)= A-4(0)

Coefficients

D₉₀= 0.1989 D₈₅= 0.1185 D₆₀= 0.0454
D₅₀= 0.0238 D₃₀= 0.0066 D₁₅=
D₁₀= C_u= C_c=

Remarks

Date Received: 7/29/2022 Date Tested: 7/29/2022

Tested By: CZ/NW

Checked By: SMF

Title: ENVIRONMENTAL MANAGER

Sample Number: 1166110

Date Sampled: 7/20/2022

Mi-Tech Services, Inc. Wausau, WI	Client: CT Laboratories Project: Mill Pond, WI Project No: 12312 (PO #170983)
Figure 17	

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 170983 MITECH

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: **Mi-Tech** Return Invoice and Results to: **ekorthals@ctlaboratories.com**

4901 STEWART AVE
WAUSAU, WI 54401

CTLaboratories
Eric Korthals
1230 Lange Court
Baraboo WI 53913

Ship by: Speedee UPS Grnd UPS 2nd UPS NDA **Government UPS Shipping Acct ?** Y N

Date Due: standard **RUSH TURNAROUND NEEDED?** Y or **(N)** (Circle One)

Project Name: MILL POND Project State: WI

Analytical/QC Criteria: **(NONE INDICATED)** STATE DOD QSM NELAP (Circle one) OTHER _____

Report results as EDD? **(N)** Y (Circle one and indicate type: _____) Data Deliverable Package LEVEL: standard

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1166078	7/20/2022 12:30	SOIL	SB2_(0-2)	HYDROMETER	
1166095	7/20/2022 12:35	SOIL	SB2_(2-4)	HYDROMETER	
1166096	7/20/2022 12:40	SOIL	SB2_(2-4) DUP	HYDROMETER	
1166097	7/20/2022 12:45	SOIL	SB2_(4-6)	HYDROMETER	
1166098	7/20/2022 12:50	SOIL	SB2_(6-8)	HYDROMETER	
1166099	7/20/2022 13:15	SOIL	SB4_(0-2)	HYDROMETER	
1166100	7/20/2022 13:20	SOIL	SB4_(2-4)	HYDROMETER	
1166101	7/20/2022 13:25	SOIL	SB4_(4-6)	HYDROMETER	
1166102	7/20/2022 13:30	SOIL	SB4_(6-8)	HYDROMETER	
1166103	7/20/2022 14:45	SOIL	SB5_(0-2)	HYDROMETER	
1166104	7/20/2022 14:50	SOIL	SB5_(2-4)	HYDROMETER	
1166105	7/20/2022 14:55	SOIL	SB5_(4-6)	HYDROMETER	
1166106	7/20/2022 15:45	SOIL	SB3_(0-2)	HYDROMETER	
1166107	7/20/2022 15:50	SOIL	SB3_(2-4)	HYDROMETER	
1166108	7/20/2022 15:55	SOIL	SB3_(4-6)	HYDROMETER	
1166109	7/20/2022 16:15	SOIL	SB1_(0-6)	HYDROMETER	
1166110	7/20/2022 16:20	SOIL	SB1_(6-12)	HYDROMETER	

Relinquished by:  Date/Time: 07-28-22 / 0900h
Received by:  Date/Time: 7-29-22 10:45 am Receipt Temperature (C) _____

COMMENTS: Please use sample description to identify samples rather than CT Labs ID #

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

QC Summary Report

AECOM

Project Name: MILL POND

SDG #: 0

Folder #: 170983

Project #: 60686763.1

Duplicate

Analytical Run #:	213755	Analysis Date:	7/22/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1166829	Analysis Time:	14:30	Prep Date/Time:	Method:	SW9045C
Parent Sample #:	1166103	Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	7.96	S.U.	7.92					1	1

Lab Control Spike Water

Analytical Run #:	213769	Analysis Date:	7/25/2022	Prep Batch #:	96207	Matrix:	LIQUID
CTLab #:	1166412	Analysis Time:	11:40	Prep Date/Time:	07/25/2022 09:10	Method:	SW9012A
Parent Sample #:		Analyst:	ATJ	Prep Analyst:	ATJ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	41.10	ug/L			40.0	103	83 --- 116		

Method Blank Water

Analytical Run #:	213769	Analysis Date:	7/25/2022	Prep Batch #:	96207	Matrix:	LIQUID
CTLab #:	1166411	Analysis Time:	11:44	Prep Date/Time:	07/25/2022 09:10	Method:	SW9012A
Parent Sample #:		Analyst:	ATJ	Prep Analyst:	ATJ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	5.0	ug/L		U	0		5.0		

Matrix Spike Duplicate Water

Analytical Run #:	213769	Analysis Date:	7/25/2022	Prep Batch #:	96207	Matrix:	GROUND WATER
CTLab #:	1166418	Analysis Time:	11:54	Prep Date/Time:	07/25/2022 09:10	Method:	SW9012A
Parent Sample #:	1166417	Analyst:	ATJ	Prep Analyst:	ATJ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	38.9	ug/L	BDL		40.0	97	83 --- 116	5	20

Matrix Spike Water

Analytical Run #:	213769	Analysis Date:	7/25/2022	Prep Batch #:	96207	Matrix:	GROUND WATER
CTLab #:	1166417	Analysis Time:	11:51	Prep Date/Time:	07/25/2022 09:10	Method:	SW9012A
Parent Sample #:	1166125	Analyst:	ATJ	Prep Analyst:	ATJ		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide	40.9	ug/L	BDL		40.0	102	83 --- 116		20

Duplicate

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOIL
CTLab #:	1167071	Analysis Time:	11:10	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:	1166078	Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	8.9	mg/kg	8.9					0	25

Duplicate

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOIL
CTLab #:	1167072	Analysis Time:	11:23	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:	1166100	Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	4.1	mg/kg	3.7					10	25

Lab Control Spike Soil

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOLID
CTLab #:	1166947	Analysis Time:	11:06	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:		Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	66.0	mg/kg			62.5	106	80 --- 120		

Method Blank Soil

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOLID
CTLab #:	1166946	Analysis Time:	11:07	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:		Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	5.0	mg/kg		U	0			5.0	

Matrix Spike Duplicate Soil

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOIL
CTLab #:	1166971	Analysis Time:	11:14	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:	1166970	Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	60.2	mg/kg	8.9		48.5	106	80 --- 120	0	25

Matrix Spike Duplicate Soil

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOIL
CTLab #:	1166973	Analysis Time:	11:28	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:	1166972	Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	55.2	mg/kg	3.7		47.6	108	80 --- 120	1	25

Matrix Spike Soil

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOIL
CTLab #:	1166970	Analysis Time:	11:13	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:	1166078	Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	59.6	mg/kg	8.9		48.1	105	80 --- 120		25

Matrix Spike Soil

Analytical Run #:	213786	Analysis Date:	7/26/2022	Prep Batch #:	96219	Matrix:	SOIL
CTLab #:	1166972	Analysis Time:	11:24	Prep Date/Time:	07/26/2022 08:30	Method:	E350.1
Parent Sample #:	1166100	Analyst:	HLB	Prep Analyst:	HLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Ammonia Nitrogen	54.8	mg/kg	3.7		47.6	107	80 --- 120		25

Duplicate

Analytical Run #:	213792	Analysis Date:	8/1/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1189207	Analysis Time:	12:28	Prep Date/Time:	Method:	SW8000C
Parent Sample #:	1166100	Analyst:	BMM	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Solids, Percent	80.4	%	79.5					1	8

Duplicate

Analytical Run #:	213821	Analysis Date:	7/29/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1189081	Analysis Time:	12:43	Prep Date/Time:	Method:	LYDKHN
Parent Sample #:	1166100	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	56300	mg/kg	48500					15	30

Duplicate

Analytical Run #:	213821	Analysis Date:	7/29/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1189082	Analysis Time:	12:49	Prep Date/Time:	Method:	LYDKHN
Parent Sample #:	1166100	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	52100	mg/kg	48500					7	30

Duplicate

Analytical Run #:	213821	Analysis Date:	7/29/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1189083	Analysis Time:	12:56	Prep Date/Time:	Method:	LYDKHN
Parent Sample #:	1166100	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	68100	mg/kg	48500					34	30

Lab Control Spike Soil

Analytical Run #:	213821	Analysis Date:	7/29/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1189075	Analysis Time:	08:57	Prep Date/Time:	Method:	LYDKHN
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	366000	mg/kg			400000	92	84 --- 113		30

Method Blank Soil

Analytical Run #:	213821	Analysis Date:	7/29/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1189076	Analysis Time:	09:03	Prep Date/Time:	Method:	LYDKHN
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	250	mg/kg		U	0		250		

Duplicate

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167171	Analysis Time:	11:27	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:	1166100	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	288	mg/kg	346					18	20

Duplicate

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167174	Analysis Time:	11:14	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:	1166078	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	110	mg/kg	172					44	20

Lab Control Spike Soil

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOLID
CTLab #:	1167166	Analysis Time:	11:05	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:		Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	984	mg/kg			1000	98	90 --- 110		

Method Blank Soil

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOLID
CTLab #:	1167165	Analysis Time:	11:06	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:		Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	100	mg/kg		U	0			100	

Matrix Spike Duplicate Soil

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167170	Analysis Time:	11:24	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:	1167169	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	873	mg/kg	346		473	111	90 --- 110	19	20

Matrix Spike Duplicate Soil

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167173	Analysis Time:	11:13	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:	1167172	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	532	mg/kg	172		410	88	90 --- 110	3	20

Matrix Spike Soil

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167169	Analysis Time:	11:22	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:	1166100	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	998	mg/kg	346		449	145	90 --- 110		20

Matrix Spike Soil

Analytical Run #:	213831	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167172	Analysis Time:	11:09	Prep Date/Time:	07/27/2022 08:30	Method:	E351.2
Parent Sample #:	1166078	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrogen Kjeldahl	578	mg/kg	172		459	88	90 --- 110		20

Duplicate

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167171	Analysis Time:	14:10	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:	1166100	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	299	mg/kg	410					31	20

Duplicate

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167174	Analysis Time:	13:57	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:	1166078	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	206	mg/kg	143					36	20

Lab Control Spike Soil

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOLID
CTLab #:	1167168	Analysis Time:	13:48	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:		Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	1080	mg/kg			1000	108	90 --- 110		

Method Blank Soil

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOLID
CTLab #:	1167167	Analysis Time:	13:49	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:		Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	100	mg/kg		U	0			100	

Matrix Spike Duplicate Soil

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167170	Analysis Time:	14:06	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:	1167169	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	706	mg/kg	410		473	63	90 --- 110	15	20

Matrix Spike Duplicate Soil

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167173	Analysis Time:	13:55	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:	1167172	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	627	mg/kg	143		410	118	90 --- 110	14	20

Matrix Spike Soil

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167169	Analysis Time:	14:05	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:	1166100	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	778	mg/kg	410		449	82	90 --- 110		20

Matrix Spike Soil

Analytical Run #:	213832	Analysis Date:	7/28/2022	Prep Batch #:	96231	Matrix:	SOIL
CTLab #:	1167172	Analysis Time:	13:52	Prep Date/Time:	07/27/2022 08:30	Method:	E365.4
Parent Sample #:	1166078	Analyst:	RLB	Prep Analyst:	RLB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Phosphorus	810	mg/kg	143		459	145	90 --- 110		20

Duplicate

Analytical Run #:	233909	Analysis Date:	7/28/2022	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	1189040	Analysis Time:	13:57	Prep Date/Time:	Method:	SW9060
Parent Sample #:	1166125	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	0.5	mg/L	0	U			1.5	0	20

Lab Control Spike Water

Analytical Run #:	233909	Analysis Date:	7/28/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1189038	Analysis Time:	12:46	Prep Date/Time:	Method:	SW9060
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	50.58	mg/L			50.0	101	85 --- 111		20

Method Blank Water

Analytical Run #:	233909	Analysis Date:	7/28/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1189039	Analysis Time:	13:00	Prep Date/Time:	Method:	SW9060
Parent Sample #:		Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	1.5	mg/L		U	0		1.5		

Matrix Spike Duplicate Water

Analytical Run #:	233909	Analysis Date:	7/28/2022	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	1189042	Analysis Time:	14:30	Prep Date/Time:	Method:	SW9060
Parent Sample #:	1189041	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	48.6	mg/L	BDL		50.0	97	85 --- 111	0	20

Matrix Spike Water

Analytical Run #:	233909	Analysis Date:	7/28/2022	Prep Batch #:	Matrix:	GROUND WATER
CTLab #:	1189041	Analysis Time:	14:17	Prep Date/Time:	Method:	SW9060
Parent Sample #:	1166125	Analyst:	TMG	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Organic Carbon	48.6	mg/L	BDL		50.0	97	85 --- 111		20

Duplicate

Analytical Run #:	233999	Analysis Date:	8/1/2022	Prep Batch #:	106330	Matrix:	SOIL
CTLab #:	1188751	Analysis Time:	13:27	Prep Date/Time:	08/01/2022 10:30	Method:	SW9056A
Parent Sample #:	1166100	Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate Nitrogen	1.42	mg/kg	1.44					1	15

Lab Control Spike Soil

Analytical Run #:	233999	Analysis Date:	8/1/2022	Prep Batch #:	106330	Matrix:	SOLID
CTLab #:	1188750	Analysis Time:	11:19	Prep Date/Time:	08/01/2022 10:30	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate Nitrogen	37.3	mg/kg			35.0	107	87 --- 111		

AECOM

Project Name: MILL POND

SDG #: 0

Folder #: 170983

Project #: 60686763.1

Method Blank Soil

Analytical Run #:	233999	Analysis Date:	8/1/2022	Prep Batch #:	106330	Matrix:	SOLID
CTLab #:	1188749	Analysis Time:	11:34	Prep Date/Time:	08/01/2022 10:30	Method:	SW9056A
Parent Sample #:		Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate Nitrogen	2.0	mg/kg		U	0		2.0		

Matrix Spike Duplicate Soil

Analytical Run #:	233999	Analysis Date:	8/1/2022	Prep Batch #:	106330	Matrix:	SOIL
CTLab #:	1188753	Analysis Time:	13:56	Prep Date/Time:	08/01/2022 10:30	Method:	SW9056A
Parent Sample #:	1188752	Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate Nitrogen	27.8	mg/kg	1.44		25.2	105	87 --- 111	0	15

Matrix Spike Soil

Analytical Run #:	233999	Analysis Date:	8/1/2022	Prep Batch #:	106330	Matrix:	SOIL
CTLab #:	1188752	Analysis Time:	13:42	Prep Date/Time:	08/01/2022 10:30	Method:	SW9056A
Parent Sample #:	1166100	Analyst:	TMG	Prep Analyst:	TMG		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Nitrate Nitrogen	27.8	mg/kg	1.44		25.2	105	87 --- 111		15

Duplicate

Analytical Run #:	213795	Analysis Date:	7/26/2022	Prep Batch #:	96189	Matrix:	SOIL
CTLab #:	1166281	Analysis Time:	19:29	Prep Date/Time:	07/25/2022 12:15	Method:	SW6010
Parent Sample #:	1166100	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	3.16	mg/kg	2.6				40	19	20
Barium	13.9	mg/kg	10				20	33	20
Cadmium	0.191	mg/kg	0.18				10	6	20
Chromium	5.83	mg/kg	6.1				20	5	20
Copper	16.1	mg/kg	13				20	21	20
Iron	7750	mg/kg	9000				600	15	20
Lead	6.96	mg/kg	5.9				20	16	20
Manganese	480	mg/kg	560				20	15	20
Nickel	6.56	mg/kg	6.6				20	1	20
Selenium	0.304	mg/kg	0	U			40	0	20
Zinc	43.1	mg/kg	34				20	24	20

Lab Control Spike Soil

Analytical Run #:	213795	Analysis Date:	7/26/2022	Prep Batch #:	96189	Matrix:	SOLID
CTLab #:	1166280	Analysis Time:	17:52	Prep Date/Time:	07/25/2022 12:15	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	100	mg/kg			100	100	82 --- 111		
Barium	99.0	mg/kg			100	99	83 --- 113		
Cadmium	2.58	mg/kg			2.50	103	82 --- 113		
Chromium	9.55	mg/kg			10.0	96	85 --- 113		
Copper	11.2	mg/kg			12.5	90	81 --- 117		
Iron	49.0	mg/kg			50.0	98	81 --- 118		
Lead	22.2	mg/kg			25.0	89	81 --- 112		
Manganese	24.6	mg/kg			25.0	98	84 --- 114		
Nickel	23.9	mg/kg			25.0	96	83 --- 113		
Selenium	97.3	mg/kg			100	97	78 --- 111		
Zinc	24.4	mg/kg			25.0	98	82 --- 113		

Method Blank Soil

Analytical Run #:	213795	Analysis Date:	7/26/2022	Prep Batch #:	96189	Matrix:	SOLID
CTLab #:	1166279	Analysis Time:	18:19	Prep Date/Time:	07/25/2022 12:15	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.50	mg/kg		U	0		0.50		
Barium	0.25	mg/kg		U	0		0.25		
Cadmium	0.13	mg/kg		U	0		0.13		
Chromium	0.25	mg/kg		U	0		0.25		
Copper	0.25	mg/kg		U	0		0.25		
Iron	7.5	mg/kg		U	0		7.5		
Lead	0.25	mg/kg		U	0		0.25		
Manganese	0.25	mg/kg		U	0		0.25		
Nickel	0.25	mg/kg		U	0		0.25		
Selenium	0.50	mg/kg		U	0		0.50		
Zinc	0.25	mg/kg		U	0		0.25		

Matrix Spike Duplicate Soil

Analytical Run #:	213795	Analysis Date:	7/26/2022	Prep Batch #:	96189	Matrix:	SOIL
CTLab #:	1166283	Analysis Time:	20:05	Prep Date/Time:	07/25/2022 12:15	Method:	SW6010
Parent Sample #:	1166282	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	127	mg/kg	2.6		122	102	82 --- 111	1	20
Barium	44.6	mg/kg	10		122	28	83 --- 113	20	20
Cadmium	3.42	mg/kg	0.18		3.05	106	82 --- 113	1	20
Chromium	18.2	mg/kg	6.1		12.2	99	85 --- 113	15	20
Copper	27.4	mg/kg	13		15.3	94	81 --- 117	6	20
Iron	8030	mg/kg	9000		61.1	0	81 --- 118	0	20
Lead	43.0	mg/kg	5.9		30.5	122	81 --- 112	3	20
Manganese	430	mg/kg	560		30.5	0	84 --- 114	1	20
Nickel	33.9	mg/kg	6.6		30.5	90	83 --- 113	2	20
Selenium	111	mg/kg	BDL		122	91	78 --- 111	2	20
Zinc	74.2	mg/kg	34		30.5	132	82 --- 113	9	20

Matrix Spike Soil

Analytical Run #:	213795	Analysis Date:	7/26/2022	Prep Batch #:	96189	Matrix:	SOIL
CTLab #:	1166282	Analysis Time:	19:57	Prep Date/Time:	07/25/2022 12:15	Method:	SW6010
Parent Sample #:	1166100	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	128	mg/kg	2.6		122	103	82 --- 111		20
Barium	54.3	mg/kg	10		122	36	83 --- 113		20
Cadmium	3.39	mg/kg	0.18		3.05	105	82 --- 113		20
Chromium	21.1	mg/kg	6.1		12.2	123	85 --- 113		20
Copper	26.0	mg/kg	13		15.3	85	81 --- 117		20
Iron	8060	mg/kg	9000		61.1	0	81 --- 118		20
Lead	41.8	mg/kg	5.9		30.5	118	81 --- 112		20
Manganese	437	mg/kg	560		30.5	0	84 --- 114		20
Nickel	33.3	mg/kg	6.6		30.5	88	83 --- 113		20
Selenium	108	mg/kg	BDL		122	89	78 --- 111		20
Zinc	68.1	mg/kg	34		30.5	112	82 --- 113		20

Lab Control Spike Water

Analytical Run #:	213800	Analysis Date:	7/26/2022	Prep Batch #:	96188	Matrix:	LIQUID
CTLab #:	1166277	Analysis Time:	14:50	Prep Date/Time:	07/25/2022 19:21	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Arsenic	822.0	ug/L			800.0	103	87 --- 113		
Total Barium	814.0	ug/L			800.0	102	88 --- 113		
Total Cadmium	19.50	ug/L			20.0	98	88 --- 113		
Total Chromium	81.40	ug/L			80.0	102	90 --- 113		
Total Copper	96.60	ug/L			100.0	97	86 --- 114		
Total Iron	391.0	ug/L			400.0	98	87 --- 115		
Total Lead	185.0	ug/L			200.0	92	86 --- 113		
Total Manganese	205.0	ug/L			200.0	102	90 --- 114		
Total Nickel	202.0	ug/L			200.0	101	88 --- 113		
Total Selenium	859.0	ug/L			800.0	107	83 --- 114		
Total Zinc	210.0	ug/L			200.0	105	87 --- 115		

Method Blank Water

Analytical Run #:	213800	Analysis Date:	7/26/2022	Prep Batch #:	96188	Matrix:	LIQUID
CTLab #:	1166276	Analysis Time:	15:18	Prep Date/Time:	07/25/2022 19:21	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Arsenic	20	ug/L		U	0		20		
Total Barium	2.0	ug/L		U	0		2.0		
Total Cadmium	1.0	ug/L		U	0		1.0		
Total Chromium	2.5	ug/L		U	0		2.5		
Total Copper	20	ug/L		U	0		20		
Total Iron	40	ug/L		U	0		40		
Total Lead	2.0	ug/L		U	0		2.0		
Total Manganese	2.5	ug/L		U	0		2.5		
Total Nickel	2.5	ug/L		U	0		2.5		
Total Selenium	20	ug/L		U	0		20		
Total Zinc	10	ug/L		U	0		10		

Matrix Spike Water

Analytical Run #:	213800	Analysis Date:	7/26/2022	Prep Batch #:	96188	Matrix:	GROUND WATER
CTLab #:	1166278	Analysis Time:	15:39	Prep Date/Time:	07/25/2022 19:21	Method:	SW6010
Parent Sample #:	1166125	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Arsenic	833	ug/L	BDL		800	104	87 --- 113		20
Total Barium	830	ug/L	BDL		800	104	88 --- 113		20
Total Cadmium	19.8	ug/L	BDL		20.0	99	88 --- 113		20
Total Chromium	82.5	ug/L	BDL		80.0	103	90 --- 113		20
Total Copper	96.9	ug/L	BDL		100	97	86 --- 114		20
Total Iron	481	ug/L	127		400	88	87 --- 115		20
Total Lead	189	ug/L	BDL		200	94	86 --- 113		20
Total Manganese	211	ug/L	2.3		200	104	90 --- 114		20
Total Nickel	206	ug/L	BDL		200	103	88 --- 113		20
Total Selenium	869	ug/L	BDL		800	109	83 --- 114		20
Total Zinc	214	ug/L	8.4		200	103	87 --- 115		20

Duplicate

Analytical Run #:	233905	Analysis Date:	7/28/2022	Prep Batch #:	96203	Matrix:	GROUND WATER
CTLab #:	1166377	Analysis Time:	11:09	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:	1166125	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Mercury	0.0200	ug/L	0	U			0.12	0	20

Lab Control Spike Water

Analytical Run #:	233905	Analysis Date:	7/28/2022	Prep Batch #:	96203	Matrix:	LIQUID
CTLab #:	1166376	Analysis Time:	10:12	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Mercury	1.92	ug/L			2.00	96	82 --- 119		

AECOM

Project Name: MILL POND

SDG #: 0

Folder #: 170983

Project #: 60686763.1

Method Blank Water

Analytical Run #:	233905	Analysis Date:	7/28/2022	Prep Batch #:	96203	Matrix:	LIQUID
CTLab #:	1166375	Analysis Time:	10:18	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Mercury	0.06	ug/L		U	0		0.06		

Matrix Spike Duplicate Water

Analytical Run #:	233905	Analysis Date:	7/28/2022	Prep Batch #:	96203	Matrix:	GROUND WATER
CTLab #:	1166379	Analysis Time:	11:47	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:	1166378	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Mercury	1.9	ug/L	BDL		2.0	95	82 --- 119	1	20

Matrix Spike Water

Analytical Run #:	233905	Analysis Date:	7/28/2022	Prep Batch #:	96203	Matrix:	GROUND WATER
CTLab #:	1166378	Analysis Time:	11:44	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:	1166125	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Total Mercury	1.9	ug/L	BDL		2.0	95	82 --- 119		20

Duplicate

Analytical Run #:	233959	Analysis Date:	7/29/2022	Prep Batch #:	96200	Matrix:	SOIL
CTLab #:	1166364	Analysis Time:	11:41	Prep Date/Time:	07/27/2022 13:30	Method:	SW7471B
Parent Sample #:	1166100	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.0088	mg/kg	0.010				0.20	13	20

Lab Control Spike Soil

Analytical Run #:	233959	Analysis Date:	7/29/2022	Prep Batch #:	96200	Matrix:	SOLID
CTLab #:	1166363	Analysis Time:	10:18	Prep Date/Time:	07/27/2022 13:30	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.077	mg/kg			0.083	93	82 --- 124		

Method Blank Soil

Analytical Run #:	233959	Analysis Date:	7/29/2022	Prep Batch #:	96200	Matrix:	SOLID
CTLab #:	1166362	Analysis Time:	10:25	Prep Date/Time:	07/27/2022 13:30	Method:	SW7471B
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00415	mg/kg		U	0		.00415		

Matrix Spike Duplicate Soil

Analytical Run #:	233959	Analysis Date:	7/29/2022	Prep Batch #:	96200	Matrix:	SOIL
CTLab #:	1166366	Analysis Time:	12:00	Prep Date/Time:	07/27/2022 13:30	Method:	SW7471B
Parent Sample #:	1166365	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.10	mg/kg	0.010		0.11	82	82 --- 124	5	20

Matrix Spike Soil

Analytical Run #:	233959	Analysis Date:	7/29/2022	Prep Batch #:	96200	Matrix:	SOIL
CTLab #:	1166365	Analysis Time:	11:57	Prep Date/Time:	07/27/2022 13:30	Method:	SW7471B
Parent Sample #:	1166100	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.11	mg/kg	0.010		0.11	91	82 --- 124		20

Lab Control Spike Duplicate Water

Analytical Run #:	213819	Analysis Date:	7/27/2022	Prep Batch #:	96197	Matrix:	LIQUID
CTLab #:	1166338	Analysis Time:	04:52	Prep Date/Time:	07/26/2022 10:15	Method:	SW8082
Parent Sample #:	1166337	Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	4.08	ug/L	3.93		5.0	82	46 --- 129	4	30
Aroclor-1221	0.010		0		5.0		70 --- 130	200	30
Aroclor-1232	0.010		0		5.0		70 --- 130	200	30
Aroclor-1242	0.010		0		5.0		70 --- 130	200	30
Aroclor-1248	0.010		0		5.0		70 --- 130	200	30
Aroclor-1254	0.010		0		5.0		34 --- 127	200	30
Aroclor-1260	4.05	ug/L	3.93		5.0	81	45 --- 134	3	30
Aroclor-1262	0.010		0		5.0		70 --- 130	200	30
Aroclor-1268	0.010		0		5.0		70 --- 130	200	30
Surr: 2,4,5,6-TCMX	73.3	% Recovery			100	73.3	38 --- 137	0	
Surr: DCBP	79.4	% Recovery			100	79.4	23 --- 147	0	

Lab Control Spike Water

Analytical Run #:	213819	Analysis Date:	7/27/2022	Prep Batch #:	96197	Matrix:	LIQUID
CTLab #:	1166337	Analysis Time:	03:25	Prep Date/Time:	07/26/2022 10:15	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	3.93	ug/L			5.0	79	46 --- 129		30
Aroclor-1221	0				5.0	0	70 --- 130		30
Aroclor-1232	0				5.0	0	70 --- 130		30
Aroclor-1242	0				5.0	0	70 --- 130		30
Aroclor-1248	0				5.0	0	70 --- 130		30
Aroclor-1254	0				5.0	0	34 --- 127		30
Aroclor-1260	3.93	ug/L			5.0	79	45 --- 134		30
Aroclor-1262	0				5.0	0	70 --- 130		30
Aroclor-1268	0				5.0	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	74.5	% Recovery			100	74.5	38 --- 137		
Surr: DCBP	86.1	% Recovery			100	86.1	23 --- 147		

Method Blank Water

Analytical Run #:	213819	Analysis Date:	7/27/2022	Prep Batch #:	96197	Matrix:	LIQUID
CTLab #:	1166336	Analysis Time:	03:03	Prep Date/Time:	07/26/2022 10:15	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	0.30	ug/L		U	0		0.30		
Aroclor-1221	0.60	ug/L		U			0.60		
Aroclor-1232	0.60	ug/L		U			0.60		
Aroclor-1242	0.60	ug/L		U			0.60		
Aroclor-1248	0.60	ug/L		U			0.60		
Aroclor-1254	0.30	ug/L		U			0.30		
Aroclor-1260	0.30	ug/L		U			0.30		
Aroclor-1262	0.60	ug/L		U			0.60		
Aroclor-1268	0.30	ug/L		U			0.30		
Surr: 2,4,5,6-TCMX	70.3	% Recovery			100	70.3	38 ---	137	
Surr: DCBP	77.5	% Recovery			100	77.5	23 ---	147	

Lab Control Spike Duplicate Water

Analytical Run #:	213820	Analysis Date:	7/27/2022	Prep Batch #:	96194	Matrix:	LIQUID
CTLab #:	1166323	Analysis Time:	01:31	Prep Date/Time:	07/26/2022 10:15	Method:	SW8081B
Parent Sample #:	1166322	Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	0.334	ug/L	0.314		0.40	84	57 --- 135	6	30
4,4'-DDT	0.330	ug/L	0.312		0.40	82	51 --- 143	6	30
Aldrin	0.287	ug/L	0.218		0.40	72	45 --- 134	27	30
alpha-Chlordane	0.325	ug/L	0.303		0.40	81	60 --- 129	7	30
Chlordane (Technical)	0	ug/L	2.25		2.50		62 --- 140	200	30
Dieldrin	0.342	ug/L	0.332		0.40	86	60 --- 136	3	30
Endrin	0.359	ug/L	0.351		0.40	90	60 --- 138	2	30
gamma-Chlordane	0.326	ug/L	0.30		0.40	82	56 --- 136	8	30
Heptachlor	0.301	ug/L	0.249		0.40	75	54 --- 130	19	30
Lindane	0.332	ug/L	0.322		0.40	83	59 --- 134	3	30
SURR:2,4,5,6-CL4-m-xylene	69.0	% Recovery			100	69.0	44 --- 124	0	
SURR:Decachlorobiphenyl	76.1	% Recovery			100	76.1	39 --- 146	0	
Toxaphene	0	ug/L	2.37		2.50		33 --- 134	200	30

Lab Control Spike Water

Analytical Run #:	213820	Analysis Date:	7/27/2022	Prep Batch #:	96194	Matrix:	LIQUID
CTLab #:	1166322	Analysis Time:	00:10	Prep Date/Time:	07/26/2022 10:15	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	0.314	ug/L			0.40	78	57 --- 135		30
4,4'-DDT	0.312	ug/L			0.40	78	51 --- 143		30
Aldrin	0.218	ug/L			0.40	54	45 --- 134		30
alpha-Chlordane	0.303	ug/L			0.40	76	60 --- 129		30
Chlordane (Technical)	2.25	ug/L			2.50	90	62 --- 140		30
Dieldrin	0.332	ug/L			0.40	83	60 --- 136		30
Endrin	0.351	ug/L			0.40	88	60 --- 138		30
gamma-Chlordane	0.30	ug/L			0.40	75	56 --- 136		30
Heptachlor	0.249	ug/L			0.40	62	54 --- 130		30
Lindane	0.322	ug/L			0.40	80	59 --- 134		30
SURR:2,4,5,6-CL4-m-xylene	58.3	% Recovery			100	58.3	44 --- 124		
SURR:Decachlorobiphenyl	71.9	% Recovery			100	71.9	39 --- 146		
Toxaphene	2.37	ug/L			2.50	95	33 --- 134		30

Method Blank Water

Analytical Run #:	213820	Analysis Date:	7/26/2022	Prep Batch #:	96194	Matrix:	LIQUID
CTLab #:	1166321	Analysis Time:	23:53	Prep Date/Time:	07/26/2022 10:15	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	0.020	ug/L		U	0		0.020		
4,4'-DDT	0.040	ug/L		U	0		0.040		
Aldrin	0.040	ug/L		U	0		0.040		
alpha-Chlordane	0.020	ug/L		U	0		0.020		
Chlordane (Technical)	0.40	ug/L		U	0		0.40		
Dieldrin	0.020	ug/L		U	0		0.020		
Endrin	0.020	ug/L		U	0		0.020		
gamma-Chlordane	0.020	ug/L		U	0		0.020		
Heptachlor	0.040	ug/L		U	0		0.040		
Lindane	0.020	ug/L		U	0		0.020		
SURR:2,4,5,6-CL4-m-xylene	70.7	ug/L			100	70.7	44 --- 124		
SURR:Decachlorobiphenyl	77.9	% Recovery			100	77.9	39 --- 146		
Toxaphene	0.40	ug/L		U	0		0.40		

Lab Control Spike Duplicate Water

Analytical Run #:	233868	Analysis Date:	7/28/2022	Prep Batch #:	96192	Matrix:	LIQUID
CTLab #:	1166315	Analysis Time:	15:38	Prep Date/Time:	07/26/2022 14:00	Method:	SW8270SIM
Parent Sample #:	1166314	Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	0.749	ug/L	0.807		1.0	75	41 --- 115	7	40
2-Methylnaphthalene	0.804	ug/L	0.872		1.0	80	39 --- 114	8	40
Acenaphthene	0.835	ug/L	0.911		1.0	84	48 --- 114	9	40
Acenaphthylene	0.841	ug/L	0.923		1.0	84	35 --- 121	9	40
Anthracene	0.878	ug/L	0.964		1.0	88	53 --- 119	9	40
Benzo(a)anthracene	0.991	ug/L	1.15		1.0	99	59 --- 120	15	40
Benzo(a)pyrene	0.971	ug/L	1.11		1.0	97	53 --- 120	13	40
Benzo(b)fluoranthene	0.952	ug/L	1.12		1.0	95	53 --- 126	16	40
Benzo(g,h,i)perylene	0.935	ug/L	1.10		1.0	94	44 --- 128	16	40
Benzo(k)fluoranthene	0.907	ug/L	1.08		1.0	91	54 --- 125	17	40
Chrysene	0.933	ug/L	1.08		1.0	93	57 --- 120	15	40
Dibenzo(a,h)anthracene	0.971	ug/L	1.13		1.0	97	44 --- 131	15	40
Fluoranthene	0.911	ug/L	1.03		1.0	91	58 --- 120	12	40
Fluorene	0.840	ug/L	0.917		1.0	84	50 --- 118	9	40
Indeno(1,2,3-cd)pyrene	0.924	ug/L	1.07		1.0	92	48 --- 130	15	40
Naphthalene	0.798	ug/L	0.872		1.0	80	43 --- 114	9	40
Phenanthrene	0.901	ug/L	0.993		1.0	90	53 --- 115	10	40
Pyrene	0.907	ug/L	1.07		1.0	91	53 --- 121	16	40
Surr: 2-Methylnaphthalene-d10	84.3	% Recovery			100	84.3	30 --- 110	0	
Surr: Fluoranthene-d10	97.2	% Recovery			100	97.2	20 --- 120	0	

Lab Control Spike Water

Analytical Run #:	233868	Analysis Date:	7/28/2022	Prep Batch #:	96192	Matrix:	LIQUID
CTLab #:	1166314	Analysis Time:	15:18	Prep Date/Time:	07/26/2022 14:00	Method:	SW8270SIM
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	0.807	ug/L			1.0	81	41 --- 115		40
2-Methylnaphthalene	0.872	ug/L			1.0	87	39 --- 114		40
Acenaphthene	0.911	ug/L			1.0	91	48 --- 114		40
Acenaphthylene	0.923	ug/L			1.0	92	35 --- 121		40
Anthracene	0.964	ug/L			1.0	96	53 --- 119		40
Benzo(a)anthracene	1.15	ug/L			1.0	115	59 --- 120		40
Benzo(a)pyrene	1.11	ug/L			1.0	111	53 --- 120		40
Benzo(b)fluoranthene	1.12	ug/L			1.0	112	53 --- 126		40
Benzo(g,h,i)perylene	1.10	ug/L			1.0	110	44 --- 128		40
Benzo(k)fluoranthene	1.08	ug/L			1.0	108	54 --- 125		40
Chrysene	1.08	ug/L			1.0	108	57 --- 120		40
Dibenzo(a,h)anthracene	1.13	ug/L			1.0	113	44 --- 131		40
Fluoranthene	1.03	ug/L			1.0	103	58 --- 120		40
Fluorene	0.917	ug/L			1.0	92	50 --- 118		40
Indeno(1,2,3-cd)pyrene	1.07	ug/L			1.0	107	48 --- 130		40
Naphthalene	0.872	ug/L			1.0	87	43 --- 114		40
Phenanthrene	0.993	ug/L			1.0	99	53 --- 115		40
Pyrene	1.07	ug/L			1.0	107	53 --- 121		40
Surr: 2-Methylnaphthalene-d10	93.6	% Recovery			100	93.6	30 --- 110		
Surr: Fluoranthene-d10	113	% Recovery			100	113	20 --- 120		

Method Blank Water

Analytical Run #:	233868	Analysis Date:	7/28/2022	Prep Batch #:	96192	Matrix:	LIQUID
CTLab #:	1166313	Analysis Time:	14:55	Prep Date/Time:	07/26/2022 14:00	Method:	SW8270SIM
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	0.025	ug/L		U	0		0.025		
2-Methylnaphthalene	0.025	ug/L		U	0		0.025		
Acenaphthene	0.025	ug/L		U	0		0.025		
Acenaphthylene	0.025	ug/L		U	0		0.025		
Anthracene	0.025	ug/L		U	0		0.025		
Benzo(a)anthracene	0.025	ug/L		U	0		0.025		
Benzo(a)pyrene	0.025	ug/L		U	0		0.025		
Benzo(b)fluoranthene	0.025	ug/L		U	0		0.025		
Benzo(g,h,i)perylene	0.025	ug/L		U	0		0.025		
Benzo(k)fluoranthene	0.025	ug/L		U	0		0.025		
Chrysene	0.025	ug/L		U	0		0.025		
Dibenzo(a,h)anthracene	0.025	ug/L		U	0		0.025		
Fluoranthene	0.025	ug/L		U	0		0.025		
Fluorene	0.025	ug/L		U	0		0.025		
Indeno(1,2,3-cd)pyrene	0.025	ug/L		U	0		0.025		
Naphthalene	0.025	ug/L		U	0		0.025		
Phenanthrene	0.025	ug/L		U	0		0.025		
Pyrene	0.025	ug/L		U	0		0.025		
Surr: 2-Methylnaphthalene-d10	75.2	% Recovery			100	75.2	30 --- 110		
Surr: Fluoranthene-d10	90.9	% Recovery			100	90.9	20 --- 120		

Lab Control Spike Soil

Analytical Run #:	233987	Analysis Date:	7/29/2022	Prep Batch #:	96193	Matrix:	SOLID
CTLab #:	1166317	Analysis Time:	14:33	Prep Date/Time:	07/26/2022 09:00	Method:	SW8270SIM
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	54.7	ug/kg			100	55	43 --- 111		40
2-Methylnaphthalene	59.4	ug/kg			100	59	39 --- 114		40
Acenaphthene	59.6	ug/kg			100	60	44 --- 111		40
Acenaphthylene	59.8	ug/kg			100	60	39 --- 116		40
Anthracene	68.8	ug/kg			100	69	50 --- 114		40
Benzo(a)anthracene	83.5	ug/kg			100	84	54 --- 122		40
Benzo(a)pyrene	79.4	ug/kg			100	79	50 --- 125		40
Benzo(b)fluoranthene	81.5	ug/kg			100	82	53 --- 128		40
Benzo(g,h,i)perylene	78.4	ug/kg			100	78	49 --- 127		40
Benzo(k)fluoranthene	72.3	ug/kg			100	72	56 --- 123		40
Chrysene	75.8	ug/kg			100	76	57 --- 118		40
Dibenzo(a,h)anthracene	81.4	ug/kg			100	81	50 --- 129		40
Fluoranthene	77.2	ug/kg			100	77	55 --- 119		40
Fluorene	61.5	ug/kg			100	62	47 --- 114		40
Indeno(1,2,3-cd)pyrene	75.0	ug/kg			100	75	49 --- 130		40
Naphthalene	60.2	ug/kg			100	60	38 --- 111		40
Phenanthrene	70.4	ug/kg			100	70	49 --- 113		40
Pyrene	76.1	ug/kg			100	76	55 --- 117		40
Surr: 2-Methylnaphthalene-d10	63.3	% Recovery			100	63.3	50 --- 150		
Surr: Fluoranthene-d10	85.5	% Recovery			100	85.5	50 --- 150		

Method Blank Soil

Analytical Run #:	233987	Analysis Date:	7/29/2022	Prep Batch #:	96193	Matrix:	SOLID
CTLab #:	1166316	Analysis Time:	14:13	Prep Date/Time:	07/26/2022 09:00	Method:	SW8270SIM
Parent Sample #:		Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	2.5	ug/kg		U	0			2.5	
2-Methylnaphthalene	2.5	ug/kg		U	0			2.5	
Acenaphthene	2.5	ug/kg		U	0			2.5	
Acenaphthylene	2.5	ug/kg		U	0			2.5	
Anthracene	2.5	ug/kg		U	0			2.5	
Benzo(a)anthracene	2.5	ug/kg		U	0			2.5	
Benzo(a)pyrene	2.5	ug/kg		U	0			2.5	
Benzo(b)fluoranthene	2.5	ug/kg		U	0			2.5	
Benzo(g,h,i)perylene	2.5	ug/kg		U	0			2.5	
Benzo(k)fluoranthene	2.5	ug/kg		U	0			2.5	
Chrysene	2.5	ug/kg		U	0			2.5	
Dibenzo(a,h)anthracene	2.5	ug/kg		U	0			2.5	
Fluoranthene	2.5	ug/kg		U	0			2.5	
Fluorene	2.5	ug/kg		U	0			2.5	
Indeno(1,2,3-cd)pyrene	2.5	ug/kg		U	0			2.5	
Naphthalene	2.5	ug/kg		U	0			2.5	
Phenanthrene	2.5	ug/kg		U	0			2.5	
Pyrene	2.5	ug/kg		U	0			2.5	
Surr: 2-Methylnaphthalene-d10	72.6	% Recovery			100	72.6	50 ---	150	
Surr: Fluoranthene-d10	83.8	% Recovery			100	83.8	50 ---	150	

Matrix Spike Duplicate Soil

Analytical Run #:	233987	Analysis Date:	7/29/2022	Prep Batch #:	96193	Matrix:	SOIL
CTLab #:	1166320	Analysis Time:	17:33	Prep Date/Time:	07/26/2022 09:00	Method:	SW8270SIM
Parent Sample #:	1166319	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	88.6	ug/kg	BDL		124	71	43 --- 111	7	40
2-Methylnaphthalene	98.5	ug/kg	BDL		124	79	39 --- 114	9	40
Acenaphthene	157	ug/kg	90.7		124	53	44 --- 111	29	40
Acenaphthylene	106	ug/kg	54.1		124	42	39 --- 116	20	40
Anthracene	257	ug/kg	650		124	0	50 --- 114	19	40
Benzo(a)anthracene	471	ug/kg	1470		124	0	54 --- 122	7	40
Benzo(a)pyrene	375	ug/kg	1140		124	0	50 --- 125	35	40
Benzo(b)fluoranthene	466	ug/kg	1390		124	0	53 --- 128	55	40
Benzo(g,h,i)perylene	238	ug/kg	572		124	0	49 --- 127	37	40
Benzo(k)fluoranthene	213	ug/kg	476		124	0	56 --- 123	36	40
Chrysene	393	ug/kg	1290		124	0	57 --- 118	42	40
Dibenzo(a,h)anthracene	119	ug/kg	142		124	0	50 --- 129	16	40
Fluoranthene	1020	ug/kg	3450		124	0	55 --- 119	9	40
Fluorene	181	ug/kg	183		124	0	47 --- 114	28	40
Indeno(1,2,3-cd)pyrene	300	ug/kg	694		124	0	49 --- 130	35	40
Naphthalene	83.1	ug/kg	BDL		124	67	38 --- 111	11	40
Phenanthrene	547	ug/kg	1540		124	0	49 --- 113	34	40
Pyrene	764	ug/kg	2590		124	0	55 --- 117	8	40
Surr: 2-Methylnaphthalene-d10	71.3	% Recovery			100	71.3	50 --- 150	0	
Surr: Fluoranthene-d10	91.5	% Recovery			100	91.5	50 --- 150	0	

Matrix Spike Soil

Analytical Run #:	233987	Analysis Date:	7/29/2022	Prep Batch #:	96193	Matrix:	SOIL
CTLab #:	1166319	Analysis Time:	17:13	Prep Date/Time:	07/26/2022 09:00	Method:	SW8270SIM
Parent Sample #:	1166100	Analyst:	JJY	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1-Methylnaphthalene	81.9	ug/kg	BDL		124	66	43 --- 111		40
2-Methylnaphthalene	89.7	ug/kg	BDL		124	72	39 --- 114		40
Acenaphthene	116	ug/kg	90.7		124	20	44 --- 111		40
Acenaphthylene	129	ug/kg	54.1		124	60	39 --- 116		40
Anthracene	211	ug/kg	650		124	0	50 --- 114		40
Benzo(a)anthracene	502	ug/kg	1470		124	0	54 --- 122		40
Benzo(a)pyrene	528	ug/kg	1140		124	0	50 --- 125		40
Benzo(b)fluoranthene	815	ug/kg	1390		124	0	53 --- 128		40
Benzo(g,h,i)perylene	342	ug/kg	572		124	0	49 --- 127		40
Benzo(k)fluoranthene	305	ug/kg	476		124	0	56 --- 123		40
Chrysene	601	ug/kg	1290		124	0	57 --- 118		40
Dibenzo(a,h)anthracene	138	ug/kg	142		124	0	50 --- 129		40
Fluoranthene	930	ug/kg	3450		124	0	55 --- 119		40
Fluorene	136	ug/kg	183		124	0	47 --- 114		40
Indeno(1,2,3-cd)pyrene	423	ug/kg	694		124	0	49 --- 130		40
Naphthalene	92.0	ug/kg	BDL		124	74	38 --- 111		40
Phenanthrene	387	ug/kg	1540		124	0	49 --- 113		40
Pyrene	819	ug/kg	2590		124	0	55 --- 117		40
Surr: 2-Methylnaphthalene-d10	71.8	% Recovery			100	71.8	50 --- 150		
Surr: Fluoranthene-d10	83.4	% Recovery			100	83.4	50 --- 150		

Lab Control Spike Soil

Analytical Run #:	233988	Analysis Date:	8/2/2022	Prep Batch #:	96195	Matrix:	SOLID
CTLab #:	1166326	Analysis Time:	15:17	Prep Date/Time:	07/26/2022 09:00	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	36.3	ug/kg			40.0	91	56 ---	134	
4,4'-DDT	38.6	ug/kg			40.0	96	50 ---	141	
Aldrin	35.1	ug/kg			40.0	88	45 ---	136	
alpha-Chlordane	34.8	ug/kg			40.0	87	54 ---	133	
Chlordane (Technical)	239	ug/kg			250	96	43 ---	149	
Dieldrin	34.9	ug/kg			40.0	87	56 ---	136	
Endrin	35.6	ug/kg			40.0	89	57 ---	140	
gamma-Chlordane	35.2	ug/kg			40.0	88	53 ---	135	
Heptachlor	35.5	ug/kg			40.0	89	47 ---	136	
Lindane	33.8	ug/kg			40.0	84	49 ---	135	
SURR:2,4,5,6-CL4-m-xylene	89.6	% Recovery			100	89.6	42 ---	129	
SURR:Decachlorobiphenyl	90.3	% Recovery			100	90.3	40 ---	138	
Toxaphene	241	ug/kg			250	96	33 ---	141	

Method Blank Soil

Analytical Run #:	233988	Analysis Date:	8/2/2022	Prep Batch #:	96195	Matrix:	SOLID
CTLab #:	1166325	Analysis Time:	15:01	Prep Date/Time:	07/26/2022 09:00	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	2.0	ug/kg		U	0			2.0	
4,4'-DDT	3.0	ug/kg		U	0			3.0	
Aldrin	3.0	ug/kg		U	0			3.0	
alpha-Chlordane	2.0	ug/kg		U	0			2.0	
Chlordane (Technical)	30	ug/kg		U				30	
Dieldrin	2.0	ug/kg		U	0			2.0	
Endrin	3.0	ug/kg		U	0			3.0	
gamma-Chlordane	2.0	ug/kg		U	0			2.0	
Heptachlor	3.0	ug/kg		U	0			3.0	
Lindane	3.0	ug/kg		U	0			3.0	
SURR:2,4,5,6-CL4-m-xylene	84.7	% Recovery			100	84.7	42 ---	129	
SURR:Decachlorobiphenyl	81.0	% Recovery			100	81.0	40 ---	138	
Toxaphene	30	ug/kg		U				30	

Matrix Spike Duplicate Soil

Analytical Run #:	233988	Analysis Date:	8/2/2022	Prep Batch #:	96195	Matrix:	SOIL
CTLab #:	1166329	Analysis Time:	18:00	Prep Date/Time:	07/26/2022 09:00	Method:	SW8081B
Parent Sample #:	1166328	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	25.5	ug/kg	3.25		46.1	48	56 --- 134	16	30
4,4'-DDT	35.3	ug/kg	BDL		46.1	77	50 --- 141	20	30
Aldrin	22.9	ug/kg	BDL		46.1	50	45 --- 136	6	30
alpha-Chlordane	23.3	ug/kg	BDL		46.1	51	54 --- 133	29	30
Chlordane (Technical)	23.1	ug/kg	BDL	U	288	0	43 --- 149	200	30
Dieldrin	23.2	ug/kg	BDL		46.1	50	56 --- 136	16	30
Endrin	27.2	ug/kg	BDL		46.1	59	57 --- 140	17	30
gamma-Chlordane	24.0	ug/kg	BDL		46.1	52	53 --- 135	13	30
Heptachlor	41.1	ug/kg	4.87		46.1	79	47 --- 136	34	30
Lindane	53.0	ug/kg	BDL		46.1	115	49 --- 135	11	30
SURR:2,4,5,6-CL4-m-xylene	68.4	% Recovery			100	68.4	42 --- 129	0	
SURR:Decachlorobiphenyl	47.5	% Recovery			100	47.5	40 --- 138	0	
Toxaphene	23.1	ug/kg	BDL	U	288	0	33 --- 141	200	30

Matrix Spike Soil

Analytical Run #:	233988	Analysis Date:	8/2/2022	Prep Batch #:	96195	Matrix:	SOIL
CTLab #:	1166328	Analysis Time:	17:44	Prep Date/Time:	07/26/2022 09:00	Method:	SW8081B
Parent Sample #:	1166078	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
4,4'-DDE	22.0	ug/kg	3.25		46.9	40	56 ---	134	30
4,4'-DDT	29.4	ug/kg	BDL		46.9	63	50 ---	141	30
Aldrin	21.9	ug/kg	BDL		46.9	47	45 ---	136	30
alpha-Chlordane	17.7	ug/kg	BDL		46.9	38	54 ---	133	30
Chlordane (Technical)	23.4	ug/kg	BDL	U	293	0	43 ---	149	30
Dieldrin	20.2	ug/kg	BDL		46.9	43	56 ---	136	30
Endrin	23.4	ug/kg	BDL		46.9	50	57 ---	140	30
gamma-Chlordane	21.4	ug/kg	BDL		46.9	46	53 ---	135	30
Heptachlor	29.5	ug/kg	4.87		46.9	53	47 ---	136	30
Lindane	48.1	ug/kg	BDL		46.9	103	49 ---	135	30
SURR:2,4,5,6-CL4-m-xylene	64.5	% Recovery			100	64.5	42 ---	129	
SURR:Decachlorobiphenyl	38.4	% Recovery		S	100	38.4	40 ---	138	
Toxaphene	23.4	ug/kg	BDL	U	293	0	33 ---	141	30

Lab Control Spike Soil

Analytical Run #:	234050	Analysis Date:	8/2/2022	Prep Batch #:	96196	Matrix:	SOLID
CTLab #:	1166340	Analysis Time:	18:10	Prep Date/Time:	07/26/2022 09:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	496	ug/kg			500	99	47 --- 134		30
Aroclor-1221	0				0.5	0	70 --- 130		30
Aroclor-1232	0				0.5	0	70 --- 130		30
Aroclor-1242	0				0.5	0	70 --- 130		30
Aroclor-1248	0				0.5	0	70 --- 130		30
Aroclor-1254	0				0.5	0	67 --- 135		30
Aroclor-1260	488	ug/kg			500	98	53 --- 140		30
Aroclor-1262	0				0.5	0	70 --- 130		30
Aroclor-1268	0				0.5	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	108	% Recovery			100	108	44 --- 130		
Surr: DCBP	107	% Recovery			100	107	54 --- 141		

Method Blank Soil

Analytical Run #:	234050	Analysis Date:	8/2/2022	Prep Batch #:	96196	Matrix:	SOLID
CTLab #:	1166339	Analysis Time:	17:48	Prep Date/Time:	07/26/2022 09:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	30	ug/kg		U	0			30	
Aroclor-1221	40	ug/kg		U	0			40	
Aroclor-1232	30	ug/kg		U	0			30	
Aroclor-1242	30	ug/kg		U	0			30	
Aroclor-1248	30	ug/kg		U	0			30	
Aroclor-1254	30	ug/kg		U	0			30	
Aroclor-1260	30	ug/kg		U	0			30	
Aroclor-1262	30	ug/kg		U	0			30	
Aroclor-1268	30	ug/kg		U	0			30	
Surr: 2,4,5,6-TCMX	108	% Recovery			100	108	44 ---	130	
Surr: DCBP	104	% Recovery			100	104	54 ---	141	

Matrix Spike Duplicate Soil

Analytical Run #:	234050	Analysis Date:	8/3/2022	Prep Batch #:	96196	Matrix:	SOIL
CTLab #:	1166344	Analysis Time:	05:03	Prep Date/Time:	07/26/2022 09:00	Method:	SW8082
Parent Sample #:	1166343	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	517	ug/kg	BDL		624	83	47 --- 134	2	30
Aroclor-1221	12.5		BDL	U	0.624	0	70 --- 130	0	30
Aroclor-1232	12.5		BDL	U	0.624	0	70 --- 130	0	30
Aroclor-1242	12.5		BDL	U	0.624	0	70 --- 130	0	30
Aroclor-1248	12.5		BDL	U	0.624	0	70 --- 130	0	30
Aroclor-1254	12.5		BDL	U	0.624	0	67 --- 135	0	30
Aroclor-1260	492	ug/kg	BDL		624	79	53 --- 140	7	30
Aroclor-1262	12.5		BDL	U	0.624	0	70 --- 130	0	30
Aroclor-1268	12.5		BDL	U	0.624	0	70 --- 130	0	30
Surr: 2,4,5,6-TCMX	85.6	% Recovery			100	85.6	44 --- 130	0	
Surr: DCBP	80.7	% Recovery			100	80.7	54 --- 141	0	

Matrix Spike Soil

Analytical Run #:	234050	Analysis Date:	8/3/2022	Prep Batch #:	96196	Matrix:	SOIL
CTLab #:	1166343	Analysis Time:	04:41	Prep Date/Time:	07/26/2022 09:00	Method:	SW8082
Parent Sample #:	1166100	Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	498	ug/kg	BDL		616	81	47 --- 134		30
Aroclor-1221	12.3		BDL	U	0.616	0	70 --- 130		30
Aroclor-1232	12.3		BDL	U	0.616	0	70 --- 130		30
Aroclor-1242	12.3		BDL	U	0.616	0	70 --- 130		30
Aroclor-1248	12.3		BDL	U	0.616	0	70 --- 130		30
Aroclor-1254	12.3		BDL	U	0.616	0	67 --- 135		30
Aroclor-1260	455	ug/kg	BDL		616	74	53 --- 140		30
Aroclor-1262	12.3		BDL	U	0.616	0	70 --- 130		30
Aroclor-1268	12.3		BDL	U	0.616	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	84.9	% Recovery			100	84.9	44 --- 130		
Surr: DCBP	78.0	% Recovery			100	78.0	54 --- 141		

Sample Condition Report

Folder #: 170983	Print Date / Time: 07/22/2022 10:12
Client: AECOM	Received Date / Time / By: 07/22/2022 09:17 erc
Project Name: MILL POND	Log-In Date / Time / By: 07/22/2022 10:12 erc
Project Phase:	Project #: 60685299 PM: ETK
Coolers: 6550, 6409, 5676	Temperature: 2.1, 1.7, 2.5 C On Ice: Y
Custody Seals Present : Y	COC Present?: Y Complete? Y
Seal Intact? Y	Numbers: DATED AND SIGNED
Ship Method: UPS GROUND	Tracking Number: 3 TRACKING NUMBERS
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE. 1 CUSTODY SEAL PRESENT AND INTACT ON ALL COOLERS. ALL DATED 7-21-2022 AND SIGNED. NO SUB SAMPLE RECEIVED FOR SAMPLE SB2_(6-8). TRACKING NUMBERS: 1Z 52F 5F9 03 9076 8936, "2049 7517, "2409 9891. TOC AND PESTICIDES NOT LISTED ON COC. ADDED PESTICIDES PER CLIENT AND WILL CONFIRM TOC ANALYSES.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1166078 SB2_(0-2)	SOLIDS	1	/	%SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN Total # of Containers of Type (SOLIDS) = 1
1166078 SB2_(0-2)	UNPRES GL	1	/	8270,PCB,PEST Total # of Containers of Type (UNPRES GL) = 1
1166078 SB2_(0-2)	MISC	1	N / N	SUB Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1166095 SB2_(2-4)	SOLIDS	1	/	%SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN Total # of Containers of Type (SOLIDS) = 1
1166095 SB2_(2-4)	UNPRES GL	1	/	8270,PCB Total # of Containers of Type (UNPRES GL) = 1
1166095 SB2_(2-4)	MISC	1	N / N	SUB Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1166096 SB2_(2-4) DUP				

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166096 SB2_(2-4) DUP

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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1166097 SB2_(4-6)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166097 SB2_(4-6)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

1166097 SB2_(4-6)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
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1166098 SB2_(6-8)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166098 SB2_(6-8)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166099 SB4_(0-2)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166099 SB4_(0-2)

UNPRES GL 1 N / N 8270,PCB,PEST
Total # of Containers of Type (UNPRES GL) = 1

1166099 SB4_(0-2)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166100 SB4_(2-4)

SOLIDS 1 N / N %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
SOLIDS 1 N / N %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 2

1166100 SB4_(2-4)

UNPRES GL 1 N / N 8270,PCB

UNPRES GL 1 N / N 8270,PCB
Total # of Containers of Type (UNPRES GL) = 2

1166100 SB4_(2-4)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166101 SB4_(4-6)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166101 SB4_(4-6)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

1166101 SB4_(4-6)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166102 SB4_(6-8)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166102 SB4_(6-8)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

1166102 SB4_(6-8)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166103 SB5_(0-2)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166103 SB5_(0-2)

UNPRES GL 1 N / N 8270,PCB,PEST
Total # of Containers of Type (UNPRES GL) = 1

1166103 SB5_(0-2)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166104 SB5_(2-4)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166104 SB5_(2-4)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

1166104 SB5_(2-4)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166105 SB5_(4-6)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166105 SB5_(4-6)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

1166105 SB5_(4-6)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166106 SB3_(0-2)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166106 SB3_(0-2)

UNPRES GL 1 N / N 8270,PCB,PEST
Total # of Containers of Type (UNPRES GL) = 1

1166106 SB3_(0-2)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166107 SB3_(2-4)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN
Total # of Containers of Type (SOLIDS) = 1

1166107 SB3_(2-4)

UNPRES GL 1 / 8270,PCB
Total # of Containers of Type (UNPRES GL) = 1

1166107 SB3_(2-4)

MISC 1 N / N SUB
Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166108 SB3_(4-6)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN

Total # of Containers of Type (SOLIDS) = 1

1166108 SB3_(4-6)

UNPRES GL 1 / 8270,PCB

Total # of Containers of Type (UNPRES GL) = 1

1166108 SB3_(4-6)

MISC 1 N / N SUB

Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166109 SB1_(0-6)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN

Total # of Containers of Type (SOLIDS) = 1

1166109 SB1_(0-6)

UNPRES GL 1 N / N 8270,PCB,PEST

Total # of Containers of Type (UNPRES GL) = 1

1166109 SB1_(0-6)

MISC 1 N / N SUB

Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166110 SB1_(6-12)

SOLIDS 1 / %SOL,Anions,HG,ICP,NH3N,pH,PHOS,TKN

Total # of Containers of Type (SOLIDS) = 1

1166110 SB1_(6-12)

UNPRES GL 1 / 8270,PCB

Total # of Containers of Type (UNPRES GL) = 1

1166110 SB1_(6-12)

MISC 1 N / N SUB

Total # of Containers of Type (MISC) = 1

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
-------------------------	----------------	------------	------------------	-------

1166125 EQB

AMBER GL 1 N / N 8270,PCB,PEST

AMBER GL 1 N / N 8270,PCB,PEST

AMBER GL 1 N / N 8270,PCB,PEST

Total # of Containers of Type (AMBER GL) = 3

1166125 EQB

NAOH PL 1 Y / N CYN

Total # of Containers of Type (NAOH PL) = 1

1166125 EQB

HNO3 1 Y / N HG,ICP

Total # of Containers of Type (HNO3) = 1

H2SO4 PL

1 Y / N

TOC

Total # of Containers of Type (H2SO4 PL) = 1

<u>Condition Code</u>	<u>Condition Description</u>
1	Sample Received OK

Company: AECOM
 Project Contact: Tory Schultz
 Telephone: tory.schultz@aecom.com
 414-690-8405
 Project Name: Oak Creek Mill Pond
 Project #: 60685299
 Location: Oak Creek, WI
 Sampled By: Brittany Grosskopf
 Garret Schacht

Folder #: 170983
 Company: AECOM
 Project: MILL POND
 Logged By: erc PM: ETK

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To: Tory Schultz
 EMAIL: tory.schultz@aecom.com
 Company: AECOM
 Address:

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

Invoice To:
 EMAIL:
 Company:
 Address:

PO #

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions metals = Hg, As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Zn
 List A = Ammonia, Phosphorus, Nitrate, Metals, pH, TKN, % Solids, PAHs, PCBs, Cyanide, O&G HEM, Hydrometer
 Protocol B = TCLP (SVOCs, Pest, Herb, Metals), PCBs, Cyanide/Sulfide React, pH flashpoint, Free Liquids, and VOC TCLP

Filtered? Y/N	ANALYSES REQUESTED												Total # Containers	Designated MS/MSD		
	List A	MS/MSD	Pesticides													
	X	X														

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered?	Fill in Spaces with Bottles per Test												Total # Containers	Designated MS/MSD	CT Lab ID # <small>Lab use only</small>
Date	Time																				
7/20/22	1230	S	G		SB2-(0-2)	N	X	X								2	1166078				
7/20/22	1235	S	G		SB2-(2-4)	N	X									2	095				
	1240	S	G		SB2-(2-4) DUP		X									2	096				
	1245	S			SB2-(4-6)		X									2	097				
	1250	S			SB2-(6-8)		X									2	098				
	1315	S			SB4-(0-2)		X	X								2	099				
	1320	S			SB4-(2-4)		X	X								4	100				
	1325	S			SB4-(4-6)		X										101				
	1330	S			SB4-(6-8)		X										102				
	1445	S			SB5-(0-2)		X	X									103				
	1450	S			SB5-(2-4)		X										104				
	1455	S			SB5-(4-6)		X										105				

Relinquished By: Garret Schacht
 Date/Time: 7/21/2022 1400

Received By: [Signature]
 Date/Time: 7/21/2022 917

Received by: [Signature]
 Date/Time: [Signature]

Received for Laboratory by: [Signature]
 Date/Time: 1026

Lab Use Only
 Ice Present Yes No
 Temp < 2.6 IR Gun 27
 Cooler # 65506409876

Company: **AECOM**
 Project Contact: **Tommy Schultz**
 Telephone: **414-690-8405**
 Project Name: **Oak Creek Mill Pond**
 Project #: **60685299**
 Location:
 Sampled By: **Brittany Grosskopf**
Garret Schacht

CT LABORATORIES
 1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Lab Use Only
 Place Header Sticker Here:
170983
 Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____
 PO #

Report To:
 EMAIL:
 Company:
 Address:
 Invoice To:*
 EMAIL:
 Company:
 Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
 List A = Ammonia, Phosphorus, Nitrate, Metals, pH, TKN, % Solids, PAHs, PCBs, Cyanide, O&G HEM, Hydrometer
 Protocol B = TCLP (SVOCs, Pest, Herb, Metals), PCBs, Cyanide/Sulfide React, pH flashpoint, Free Liquids, and VOC TCLP

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

Filtered? Y/N	ANALYSES REQUESTED										Total # Containers	Designated MS/MSD
	LISTA	PAH SIM	Pesticides	PCB Total	Organ Carbon T	Metals Total	Cyanide					
N	X	X									2	
L	X										2	
L	X	X									2	
L	X										2	
		X	X	X	X	X	X				6	

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test										Total # Containers	Designated MS/MSD	CT Lab ID # <i>Lab use only</i>
Date	Time																		
7/20/22	1545	S	G		SB3-(0-2)	N	X	X									1166106		
7/20/22	1550	S	G		SB3-(2-4)	L	X										07		
7/20/22	1555	S	G		SB3-(4-6)	L	X										08		
↓	1615	S	G		SB1-(0-6)	L	X	X									09		
↓	1620	S	G		SB1-(6-12)	L	X										10		
7/20/22	1700	W	G		EqB			X	X	X	X	X	X				25		
65 7-22-2022																			

Relinquished By:
Garret Schacht
 Received by:
 170983 - 195 of 198

Date/Time
7/21/22 1400
 Date/Time

Received By:
Eric
 Received for Laboratory by:
Eric

Date/Time
7/21/22 9:17
 Date/Time
7/21/22 10:28

Lab Use Only
 Ice Present Yes No
 Temp **62.6** IR Gun **77**
 Cooler # **6550, 6409, 5876**

Cooler Receipt Form

Ice Present YES NO
Observed Temperature 21
Actual Temperature _____
IR Gun # 27
Initials Em
Date 7/21/2022 Time 9:17
Cooler #: 5676

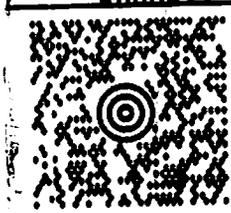


GARRET SCHACHT
(920) 471-6654
THE UPS STORE #2324
1345 N JEFFERSON ST
MILWAUKEE WI 53202-2657

55 LBS 1 OF 1
SHP WT: 55 LBS
DATE: 21 JUL 2022

SHIP CS LOGISTICS
TO: 1230 LANGE CT

BARABOO WI 53913-3109

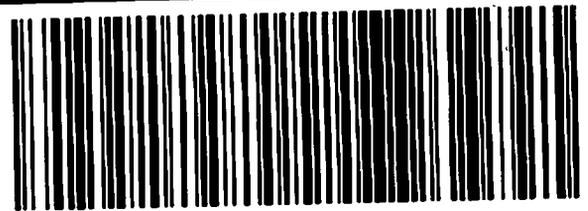


WI 539 0-10



UPS GROUND

TRACKING #: 1Z 52F 5F9 03 9076 8936



BILLING: P/P

10N 13.00P 22P 480 23.00 05/2022

ALL NOTICE OR RELEASE regarding UPS terms and notice of limitation of liability, where allowed by law, shipper indicates UPS to act as forwarding agent for export control and customs purposes. If exported from the US, shipper certifies that the commodities, technology or software were exported from the US in accordance with the Export Administration Regulations. Exceptions contrary to law is prohibited. 1301 0122

Cooler Receipt Form

Ice Present YES NO
Observed Temperature 1.7
Actual Temperature _____
IR Gun # 27
Initials Free
Date 7/22 Time 9:17
Cooler #: 6409

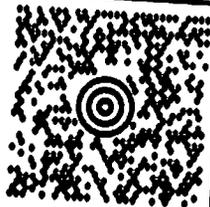
QEC
Quality Environmental Cor
800-255-3950 • 304-255-
CUSTODY SEAL
DATE 7-22-2022
SIGNATURE Garrett Schacht

GARRET SCHACHT
(920) 471-8854
THE UPS STORE #2324
1345 N JEFFERSON ST
MILWAUKEE WI 53202-2657

55 LBS 1 OF 1
SHIP WT: 55 LBS
DATE: 21 JUL 2022

SHIP CS LOGISTICS
TO: 1230 LANGE CT

BARABOO WI 53913-3109

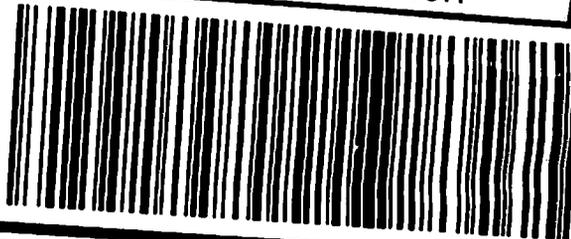


WI 539 0-10



UPS GROUND

TRACKING #: 1Z 52F 5F9 03 2409 7517



BILLING: P/P

ISH 13.00F ZEP 400 23.00 05/2022

SEE NOTICE ON REVERSE regarding UPS terms, and notice of limitation of liability. Where allowed by law, shipper authorizes UPS to act as its forwarding agent for export, transit and customs purposes. If required from the US, shipper certifies that the consignor's technology or software was exported from the US in accordance with the Export Administration Regulations. Consignor certifies to law & published.

ANALYTICAL REPORT

AECOM
 TORY SCHULTZ
 1555 N RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Project Name: MILL POND
 Project Phase: IDW
 Contract #: 3498
 Project #: 60686763.1
 Folder #: 170984
 Purchase Order #: 146621

Page 1 of 5
 Arrival Temperature: 2.5
 Report Date: 8/9/2022
 Date Received: 7/22/2022
 Reprint Date: 9/6/2022

CT LAB Sample#: 1166169	Sample Description: SB1_(0-12)	Sampled: 7/20/2022 13:60
-------------------------	--------------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
TCLP Arsenic	0.015	mg/L	0.0077 *	0.04	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Barium	0.42	mg/L	0.00071	0.004	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Cadmium	0.0015	mg/L	0.00041 *	0.002	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Chromium	0.0023	mg/L	0.0011 *	0.005	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Copper	0.018	mg/L	0.0052 *	0.04	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Lead	0.015	mg/L	0.0014	0.0046	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Nickel	0.043	mg/L	0.0015	0.005	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Selenium	<0.01	mg/L	0.01	0.04	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Silver	<0.0011	mg/L	0.0011	0.005	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Zinc	0.85	mg/L	0.0045	0.02	1		7/27/2022 09:00	7/29/2022 18:49	NAH	EPA 6010C
TCLP Mercury	<0.00002	mg/L	0.00002	0.00008	1		7/27/2022 09:00	7/28/2022 12:03	MDS	EPA 7470A
Organic Results										
TCLP alpha-Chlordane	<0.00006	mg/L	0.00006	0.0002	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Chlordane (Technical)	<0.002	mg/L	0.002	0.008	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Endrin	<0.000094	mg/L	0.000094	0.0004	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166169

Sample Description: SB1_(0-12)

Sampled: 7/20/2022 13:60

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP gamma-Chlordane	<0.00005	mg/L	0.00005	0.0002	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Heptachlor	<0.0002	mg/L	0.0002	0.0008	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Heptachlor epoxide	<0.00005	mg/L	0.00005	0.0002	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Lindane	<0.0001	mg/L	0.0001	0.0004	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Methoxychlor	<0.0002	mg/L	0.0002	0.0008	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP Toxaphene	<0.0019	mg/L	0.0019	0.008	1		7/27/2022 09:00	8/3/2022 15:51	AJZ	EPA 8081B
TCLP 1,1-Dichloroethene	<0.049	mg/L	0.049	0.20	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP 1,2-Dichloroethane	<0.069	mg/L	0.069	0.21	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP 2-Butanone	<0.29	mg/L	0.29	1.0	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Benzene	<0.047	mg/L	0.047	0.20	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Carbon tetrachloride	<0.037	mg/L	0.037	0.12	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Chlorobenzene	<0.037	mg/L	0.037	0.12	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Chloroform	<0.046	mg/L	0.046	0.14	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Tetrachloroethene	<0.054	mg/L	0.054	0.20	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Trichloroethene	<0.039	mg/L	0.039	0.12	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP Vinyl chloride	<0.012	mg/L	0.012	0.050	100		8/2/2022 08:40	8/3/2022 14:23	DGS	EPA 8260C
TCLP 1,4-Dichlorobenzene	<0.0027	mg/L	0.0027	0.020	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP 2,4,5-Trichlorophenol	<0.019	mg/L	0.019	0.10	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP 2,4,6-Trichlorophenol	<0.017	mg/L	0.017	0.10	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP 2,4-Dinitrotoluene	<0.0025	mg/L	0.0025	0.020	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP 2-Methylphenol	<0.015	mg/L	0.015	0.10	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP 3 & 4-Methylphenol	<0.034	mg/L	0.034	0.18	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP Hexachlorobenzene	<0.0029	mg/L	0.0029	0.020	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP Hexachlorobutadiene	<0.0029	mg/L	0.0029	0.020	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166169	Sample Description: SB1_(0-12)	Sampled: 7/20/2022 13:60
-------------------------	--------------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
TCLP Hexachloroethane	<0.0031	mg/L	0.0031	0.020	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP Nitrobenzene	<0.0030	mg/L	0.0030	0.020	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP Pentachlorophenol	<0.016	mg/L	0.016	0.10	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP Pyridine	<0.010	mg/L	0.010	0.040	1		7/27/2022 09:00	8/3/2022 14:56	JJY	EPA 8270D
TCLP 2,4,5-TP (Silvex, acid eq)	<0.001	mg/L	0.001	0.005	1		7/27/2022 09:00	8/1/2022 20:59	AJZ	EPA 8151M
TCLP 2,4-D (acid eq)	<0.004	mg/L	0.004	0.025	1		7/27/2022 09:00	8/1/2022 20:59	AJZ	EPA 8151M

CT LAB Sample#: 1166170	Sample Description: SB1_(0-12)	Sampled: 7/20/2022 13:60
-------------------------	--------------------------------	--------------------------

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Solids, Percent	56.8	%	0.1	0.1	1			8/1/2022 12:28	BMM	EPA 8000C
Free Liquids	ABSENT		N/A	N/A	1			7/27/2022 10:10	ATJ	EPA 9095B
pH	7.09	S.U.	0.1	0.1	1			7/22/2022 14:30	ATJ	EPA 9045D
Flashpoint	>140	Deg. F	N/A	N/A	1			8/3/2022 08:30	HLB	EPA 1010A
Cyanide, Reactive	<20	mg/kg	20		1			7/27/2022 12:00	ATJ	SW 846 Ch. 7
Organic Results										
Aroclor-1016	<29	ug/kg	29	87	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
Aroclor-1221	<48	ug/kg	48	140	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
Aroclor-1232	<19	ug/kg	19	68	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
Aroclor-1242	<17	ug/kg	17	68	1		7/26/2022 09:00	8/4/2022 10:09	AJZ	EPA 8082A
Aroclor-1248	<24	ug/kg	24	71	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
Aroclor-1254	86.6	ug/kg	31 *	92	1		7/26/2022 09:00	8/4/2022 10:09	AJZ	EPA 8082A
Aroclor-1260	37.4	ug/kg	19 *	68	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 1166170

Sample Description: SB1_(0-12)

Sampled: 7/20/2022 13:60

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Aroclor-1262	<17	ug/kg	17	68	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
Aroclor-1268	<29	ug/kg	29	87	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
PCB, Total	124	ug/kg	17	68	1		7/26/2022 09:00	8/3/2022 02:52	AJZ	EPA 8082A
Sub Lab Results										
Sulfide Reactive	attached		N/A	N/A	1			8/9/2022 00:00	SUB	SW7.3.4.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis



Microbac Laboratories Inc., - Marietta, OH

Client Project ID:

Misc non DOD

For:

Brett Szymanski

CT Laboratories

1230 Lange Court

Baraboo, WI 53913

Project State of Origin: Wisconsin

Project Requested Certification:

Microbac Laboratories Inc., - Marietta, OH E87551 Florida Department of Health

All test results meet the requirements of the QAPP and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. The reported results are related only to the samples analyzed as received. This laboratory report may be released as a hardcopy and in computer-readable form submitted electronically or on diskette. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, Inc.

Laboratory Project Manager:

A handwritten signature in black ink, appearing to read "Alicia Walker", is written over a light grey rectangular background.

Alicia Walker
Project Manager
Alicia.Walker@Microbac.com

Authorized By:

A handwritten signature in black ink, appearing to read "Alicia Walker", is written over a light grey rectangular background.

Alicia Walker
Project Manager
Issued: 08/09/2022

Microbac Laboratories, Inc.

158 Starlite Drive | Marietta, OH 45750 | 800.373.4071 p | www.microbac.com



Laboratory Report Number: M2G1468

Client Project ID: Misc non DOD

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.3°C

Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes



Laboratory Report Number: M2G1468

Client Project ID: Misc non DOD

Microbac Laboratories Inc., - Marietta, OH

CERTIFICATE OF ANALYSIS

Client ID: SB1_0-12)	Collection Date: 07/20/2022 13:00
Laboratory ID: M2G1468-01	Prep Date: 08/08/2022 10:47
Matrix: Solid	Analyzed: 08/09/2022 11:56
Batch / Sequence: B2H0363 /	Analytical Method: EPA 7.3.4.2
Instrument: Buret	Units: mg/kg
Analyst: APH	Dilution: 1
	Calibration: NA
	File ID: SulfideReactive_B2H0363_220809102021.xls

Analyte	CAS Number	Result	MDL	RL	Flag	Qualifier
Reactive Sulfide		ND	100	100		



Laboratory Report Number: M2G1468

Client Project ID: Misc non DOD

Notes and Definitions

mg/kg: Milligrams per Kilogram

MDL: Method Detection Limit

RL: Reporting Limit



Laboratory Report Number: M2G1468

Client Project ID: Misc non DOD

METHOD BLANKS

Sample ID: B2H0363-BLK1	Prep Date: 08/08/22 10:47	Matrix: Solid
Instrument: Buret	Analyzed: 08/09/22 11:56	Method: EPA 7.3.4.2
File ID: SulfideReactive_B2H03	Sequence:	Analyst: APH
Batch: B2H0363	Units: mg/kg	Calibration:

Analyte	Result	MDL	RL	Dilution	Flag	Q
Reactive Sulfide	4.00	4.00	4.00	1	U	

* - Detected in the associated method Blank at a concentration >= RL



Laboratory Report Number: M2G1468

Client Project ID: Misc non DOD

BLANK SPIKE (BS)

Method: EPA 7.3.4.2	Blank Spike				
Batch: B2H0363	Spike ID: B2H0363-BS1				
Analyst: APH	Prepared: 08/08/22 10:47				
Matrix: Solid	Analyzed: 08/09/22 11:56				
Units: mg/kg	File ID: SulfideReactive_B2H0363_22080				
Instrument: Buret	Initial/Final: 200g/200mL				
Calibration:					
Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limits	Q
Reactive Sulfide	22.1	22.6	102	50 - 150	

* - Does not meet %Rec acceptance criteria.

- Does not meet RPD acceptance criteria.



Laboratory Report Number: M2G1468

Client Project ID: Misc non DOD

Method: EPA 7.3.4.2	Blank Spike				
Batch: B2H0363	Spike ID: B2H0363-BS2				
Analyst: APH	Prepared: 08/08/22 10:47				
Matrix: Solid	Analyzed: 08/09/22 11:56				
Units: mg/kg	File ID: SulfideReactive_B2H0363_22080				
Instrument: Buret	Initial/Final: 10g/250mL				
Calibration:					
Analyte	BS Spiked	BS Found	BS %Rec	%Rec Limits	Q
Reactive Sulfide	883	494	55.9	50 - 150	

* - Does not meet %Rec acceptance criteria.

- Does not meet RPD acceptance criteria.

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 170984 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: Microbac
 158 Starlight Drive
 Marietta, OH 45750

Return Invoice and Results to: ekorthals@ctlaboratories.com

Ship by: Speedee UPS Gnd UPS 2nd UPS NDA X

CT Laboratories
 Eric Korthals
 1230 Lange Court
 Baraboo WI 53913

Date Due: standard **RUSH TURNAROUND NEEDED?** Y or N (Circle One)

Project Name: MILL POND **Project State:** WI

Analytical/QC Criteria: NONE INDICATED **STATE** **DOD QSM** **NELAP** (Circle one) **OTHER**

Report results as EDD? N Y (Circle one and indicate type: _____) **Data Deliverable Package LEVEL:** level 2

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1166170	7/20/2022 13:60	SOIL	SB1_(0-12)	SULFIDE REACT	

Relinquished by: [Signature] **Date/Time:** 07-27-22 / 1515 h

Received by: Brenda Gregory **Date/Time:** 7/28/22 0915 **Receipt Temperature (C)** 13

COMMENTS:

Revised COC key

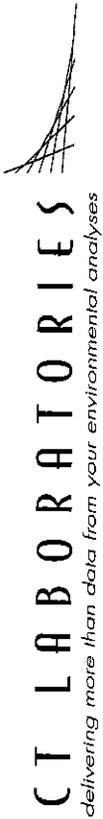
REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED



CT Laboratories
 Rec'd: 07/28/2022 14:15
 By: Brenda Gregory

Temp: 1.3 _____ (Signature)

Form #: FPM1-01
 Effective Date: 02/15/14



1230 Lange Court • Baraboo, WI 53913 • 608-356-2760
www.ctlaboratories.com

Sub-Contract Laboratory Chain-of-Custody and Purchase Order

PURCHASE ORDER #: 170984 MICROBAC

The PO# must appear on all invoice and reports!

Upon Receipt of Samples, please verify that samples were received in acceptable condition then sign this form and fax to (608)356-2766 or email to the project manager. Sample temperature, upon receipt, must be recorded on this document unless thermal preservation is not a method requirement.

Ship to: Microbac
158 Starlight Drive
Marietta, OH 45750

Return Invoice and Results to: ekorthais@ctlaboratories.com

Ship by: Speedee UPS Grnd UPS 2nd UPS NDA

CTLaboratories
Eric Korthals
1230 Lange Court
Baraboo WI 53913

Date Due: standard RUSH TURNAROUND NEEDED? Y or N (Circle One) N

Project Name: MILL POND Project State: WI

Analytical/QC Criteria: NONE INDICATED STATE STATE DOD QSM NELAP (Circle one) OTHER OTHER

Report results as EDD? N Y (Circle one and indicate type: _____) Data Deliverable Package LEVEL: level 2

CTLabs ID#	Sample Date/Time	Matrix	Sample Description	Analyses / Method	Cost
1166170	7/20/2022 13:60	SOIL	SB1_ (0-12)	SULFIDE REACT	

Relinquished by: [Signature] Date/Time: 07:28-22 / 0800h

Received by: _____ Date/Time: _____ Receipt Temperature (C) _____

COMMENTS:

REPORT ALL SOLIDS ON A DRY WEIGHT BASIS UNLESS OTHERWISE INDICATED

Form #: FPM1-01
Effective Date: 02/15/14

QC Summary Report

AECOM

Project Name: MILL POND

SDG #: 0

Folder #: 170984

Project #: 60686763.1

Duplicate

Analytical Run #:	213755	Analysis Date:	7/22/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1166830	Analysis Time:	14:30	Prep Date/Time:	Method:	SW9045C
Parent Sample #:	1166170	Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
pH	7.11	S.U.	7.09					0	1

Duplicate

Analytical Run #:	223839	Analysis Date:	7/27/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1177192	Analysis Time:	12:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:	1166170	Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg	0	U				0	20

Lab Control Spike Soil

Analytical Run #:	223839	Analysis Date:	7/27/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1177194	Analysis Time:	12:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:		Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg			20.0	100	70 --- 130		

Method Blank Soil

Analytical Run #:	223839	Analysis Date:	7/27/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1177195	Analysis Time:	12:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:		Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	8	mg/kg		U	0			8	

Matrix Spike Soil

Analytical Run #:	223839	Analysis Date:	7/27/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1177193	Analysis Time:	12:00	Prep Date/Time:	Method:	SW7.3
Parent Sample #:	1166170	Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Cyanide, Reactive	20.0	mg/kg			20.0	100	70 --- 130		

Duplicate

Analytical Run #:	223841	Analysis Date:	7/27/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1187512	Analysis Time:	10:10	Prep Date/Time:	Method:	SW9095
Parent Sample #:	1166170	Analyst:	ATJ	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Free Liquids	ABSENT		ABSENT					0	

Duplicate

Analytical Run #:	234055	Analysis Date:	8/3/2022	Prep Batch #:	Matrix:	SOIL
CTLab #:	1190852	Analysis Time:	08:30	Prep Date/Time:	Method:	SW1010
Parent Sample #:	1166170	Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Flashpoint	>140	Deg. F	>140					0	5

Lab Control Spike Soil

Analytical Run #:	234055	Analysis Date:	8/3/2022	Prep Batch #:	Matrix:	SOLID
CTLab #:	1190853	Analysis Time:	08:30	Prep Date/Time:	Method:	SW1010
Parent Sample #:		Analyst:	HLB	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Flashpoint	79.3	Deg. F			81	98	97 --- 103		

Duplicate

Analytical Run #:	233849	Analysis Date:	7/29/2022	Prep Batch #:	96236	Matrix:	TCLP
CTLab #:	1177339	Analysis Time:	19:05	Prep Date/Time:	07/27/2022 10:49	Method:	SW6010
Parent Sample #:	1166169	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.0151	mg/L	0.015				0.040	1	20
Barium	0.425	mg/L	0.42				0.0040	1	20
Cadmium	0.00146	mg/L	0.0015				0.0020	3	20
Chromium	0.00252	mg/L	0.0023				0.0050	9	20
Copper	0.0193	mg/L	0.018				0.040	7	20
Lead	0.013	mg/L	0.015				0.0040	14	20
Nickel	0.0437	mg/L	0.043				0.0050	2	20
Selenium	0.01	mg/L	0	U			0.010	0	20
Silver	0.0011	mg/L	0	U			0.0050	0	20
Zinc	0.86	mg/L	0.85				0.020	1	20

Lab Control Spike Water

Analytical Run #:	233849	Analysis Date:	7/29/2022	Prep Batch #:	96236	Matrix:	LIQUID
CTLab #:	1177338	Analysis Time:	18:36	Prep Date/Time:	07/27/2022 10:49	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.819	mg/L			0.8	102	87 --- 113		
Barium	0.786	mg/L			0.8	98	88 --- 113		
Cadmium	0.0196	mg/L			0.02	98	88 --- 113		
Chromium	0.0833	mg/L			0.08	104	90 --- 113		
Copper	0.0955	mg/L			0.1	96	86 --- 114		
Lead	0.187	mg/L			0.2	94	86 --- 113		
Nickel	0.203	mg/L			0.2	102	88 --- 113		
Selenium	0.862	mg/L			0.8	108	83 --- 114		
Silver	0.0213	mg/L			0.02	106	84 --- 115		
Zinc	0.209	mg/L			0.2	104	87 --- 115		

Method Blank Water

Analytical Run #:	233849	Analysis Date:	7/29/2022	Prep Batch #:	96236	Matrix:	LIQUID
CTLab #:	1177337	Analysis Time:	18:42	Prep Date/Time:	07/27/2022 10:49	Method:	SW6010
Parent Sample #:		Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.020	mg/L		U	0		0.020		
Barium	0.0020	mg/L		U	0		0.0020		
Cadmium	0.0010	mg/L		U	0		0.0010		
Chromium	0.0025	mg/L		U	0		0.0025		
Copper	0.020	mg/L		U	0		0.020		
Lead	0.0020	mg/L		U	0		0.0020		
Nickel	0.0025	mg/L		U	0		0.0025		
Selenium	0.020	mg/L		U	0		0.020		
Silver	0.0025	mg/L		U	0		0.0025		
Zinc	0.010	mg/L		U	0		0.010		

Matrix Spike Duplicate Water

Analytical Run #:	233849	Analysis Date:	7/29/2022	Prep Batch #:	96236	Matrix:	TCLP
CTLab #:	1177341	Analysis Time:	19:20	Prep Date/Time:	07/27/2022 10:49	Method:	SW6010
Parent Sample #:	1177340	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.865	mg/L	0.015		0.8	106	87 --- 113	0	20
Barium	1.18	mg/L	0.42		0.8	95	88 --- 113	1	20
Cadmium	0.0204	mg/L	0.0015		0.02	94	88 --- 113	0	20
Chromium	0.0818	mg/L	0.0023		0.08	99	90 --- 113	0	20
Copper	0.114	mg/L	0.018		0.1	96	86 --- 114	0	20
Lead	0.189	mg/L	0.015		0.2	87	86 --- 113	1	20
Nickel	0.237	mg/L	0.043		0.2	97	88 --- 113	0	20
Selenium	0.902	mg/L	BDL		0.8	113	83 --- 114	1	20
Silver	0.0219	mg/L	BDL		0.02	110	84 --- 115	0	20
Zinc	1.02	mg/L	0.85		0.2	85	50 --- 150	1	20

Matrix Spike Water

Analytical Run #:	233849	Analysis Date:	7/29/2022	Prep Batch #:	96236	Matrix:	TCLP
CTLab #:	1177340	Analysis Time:	19:13	Prep Date/Time:	07/27/2022 10:49	Method:	SW6010
Parent Sample #:	1166169	Analyst:	NAH	Prep Analyst:	NAH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Arsenic	0.864	mg/L	0.015		0.8	106	87 --- 113		20
Barium	1.17	mg/L	0.42		0.8	94	88 --- 113		20
Cadmium	0.0204	mg/L	0.0015		0.02	94	88 --- 113		20
Chromium	0.0816	mg/L	0.0023		0.08	99	90 --- 113		20
Copper	0.114	mg/L	0.018		0.1	96	86 --- 114		20
Lead	0.19	mg/L	0.015		0.2	88	86 --- 113		20
Nickel	0.236	mg/L	0.043		0.2	96	88 --- 113		20
Selenium	0.896	mg/L	BDL		0.8	112	83 --- 114		20
Silver	0.0218	mg/L	BDL		0.02	109	84 --- 115		20
Zinc	1.01	mg/L	0.85		0.2	80	50 --- 150		20

Duplicate

Analytical Run #:	233907	Analysis Date:	7/28/2022	Prep Batch #:	106237	Matrix:	TCLP
CTLab #:	1187335	Analysis Time:	12:18	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:	1166169	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00002	mg/L	0	U			0.12	0	20

Lab Control Spike Water

Analytical Run #:	233907	Analysis Date:	7/28/2022	Prep Batch #:	106237	Matrix:	LIQUID
CTLab #:	1187334	Analysis Time:	11:53	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00201	mg/L			0.002	100	82 --- 119		

Method Blank Water

Analytical Run #:	233907	Analysis Date:	7/28/2022	Prep Batch #:	106237	Matrix:	LIQUID
CTLab #:	1187333	Analysis Time:	11:59	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:		Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00006	mg/L		U	0			.00006	

Matrix Spike Duplicate Water

Analytical Run #:	233907	Analysis Date:	7/28/2022	Prep Batch #:	106237	Matrix:	TCLP
CTLab #:	1187337	Analysis Time:	12:25	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:	1187336	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00192	mg/L	BDL		0.002	96	82 --- 119	1	20

Matrix Spike Water

Analytical Run #:	233907	Analysis Date:	7/28/2022	Prep Batch #:	106237	Matrix:	TCLP
CTLab #:	1187336	Analysis Time:	12:22	Prep Date/Time:	07/27/2022 15:20	Method:	SW7470A
Parent Sample #:	1166169	Analyst:	MDS	Prep Analyst:	MDS		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Mercury	0.00194	mg/L	BDL		0.002	97	82 --- 119		20

Lab Control Spike Water

Analytical Run #:	234020	Analysis Date:	8/1/2022	Prep Batch #:	106324	Matrix:	LIQUID
CTLab #:	1188694	Analysis Time:	20:25	Prep Date/Time:	08/01/2022 09:00	Method:	SW8151M
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
2,4,5-TP (Silvex, acid eq)	0.00931	mg/L			0.01	93	51 --- 134		30
2,4-D (acid eq)	0.0461	mg/L			0.05	92	45 --- 152		30
Surr: 2,4-DCAA	87.6	% Recovery			100	87.6	32 --- 138		

Method Blank Water

Analytical Run #:	234020	Analysis Date:	8/1/2022	Prep Batch #:	106324	Matrix:	LIQUID
CTLab #:	1188693	Analysis Time:	20:08	Prep Date/Time:	08/01/2022 09:00	Method:	SW8151M
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
2,4,5-TP (Silvex, acid eq)	0.0025	mg/L		U	0		0.0025		
2,4-D (acid eq)	0.013	mg/L		U	0		0.013		
Surr: 2,4-DCAA	84.1	% Recovery			100	84.1	32 --- 138		

Lab Control Spike Water

Analytical Run #:	234039	Analysis Date:	8/3/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1189782	Analysis Time:	09:21	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.15	mg/L			1.0	115	71 --- 131		20
1,2 Dichloroethane-d4	99.0	% Recovery			100	99.0	81 --- 118		
1,2-Dichloroethane	1.06	mg/L			1.0	106	73 --- 128		20
2-Butanone	10.3	mg/L			10.0	103	56 --- 143		20
Benzene	1.08	mg/L			1.0	108	79 --- 120		20
Bromofluorobenzene	100	% Recovery			100	100	85 --- 114		
Carbon tetrachloride	1.17	mg/L			1.0	117	72 --- 136		20
Chlorobenzene	1.09	mg/L			1.0	109	82 --- 118		20
Chloroform	1.06	mg/L			1.0	106	79 --- 124		20
d8-Toluene	100	% Recovery			100	100	89 --- 112		
Dibromofluoromethane	100	% Recovery			100	100	80 --- 119		
Tetrachloroethene	1.10	mg/L			1.0	110	74 --- 129		20
Trichloroethene	1.05	mg/L			1.0	105	79 --- 123		20
Vinyl chloride	1.14	mg/L			1.0	114	58 --- 137		20

Method Blank Water

Analytical Run #:	234039	Analysis Date:	8/3/2022	Prep Batch #:	Matrix:	LIQUID
CTLab #:	1189997	Analysis Time:	10:22	Prep Date/Time:	Method:	SW8260C
Parent Sample #:		Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	0.0010	mg/L		U	0		0.0010		
1,2 Dichloroethane-d4	103	% Recovery			100	103	70 --- 120		
1,2-Dichloroethane	0.00105	mg/L		U	0		.00105		
2-Butanone	0.0055	mg/L		U	0		0.0055		
Benzene	0.0010	mg/L		U	0		0.0010		
Bromofluorobenzene	98.0	% Recovery			100	98.0	75 --- 120		
Carbon tetrachloride	0.0006	mg/L		U	0		0.0006		
Chlorobenzene	0.0006	mg/L		U	0		0.0006		
Chloroform	0.0007	mg/L		U	0		0.0007		
d8-Toluene	100	% Recovery			100	100	85 --- 120		
Dibromofluoromethane	99.0	% Recovery			100	99.0	85 --- 115		
Tetrachloroethene	0.0010	mg/L		U	0		0.0010		
Trichloroethene	0.0006	mg/L		U	0		0.0006		
Vinyl chloride	0.00025	mg/L		U	0		.00025		

Matrix Spike Duplicate Water

Analytical Run #:	234039	Analysis Date:	8/3/2022	Prep Batch #:	Matrix:	TCLP
CTLab #:	1190194	Analysis Time:	15:23	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1190192	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.11	mg/L	BDL		1.0	111	71 --- 131	5	20
1,2 Dichloroethane-d4	98.0	% Recovery			100	98.0	81 --- 118	0	
1,2-Dichloroethane	1.06	mg/L	BDL		1.0	106	73 --- 128	6	20
2-Butanone	10.3	mg/L	BDL		10.0	103	56 --- 143	3	20
Benzene	1.08	mg/L	BDL		1.0	108	79 --- 120	3	20
Bromofluorobenzene	100	% Recovery			100	100	85 --- 114	0	
Carbon tetrachloride	1.13	mg/L	BDL		1.0	113	72 --- 136	2	20
Chlorobenzene	1.08	mg/L	BDL		1.0	108	82 --- 118	2	20
Chloroform	1.05	mg/L	BDL		1.0	105	79 --- 124	3	20
d8-Toluene	100	% Recovery			100	100	89 --- 112	0	
Dibromofluoromethane	99.0	% Recovery			100	99.0	80 --- 119	0	
Tetrachloroethene	1.09	mg/L	BDL		1.0	109	74 --- 129	2	20
Trichloroethene	1.07	mg/L	BDL		1.0	107	79 --- 123	1	20
Vinyl chloride	1.13	mg/L	BDL		1.0	113	58 --- 137	3	20

Matrix Spike Water

Analytical Run #:	234039	Analysis Date:	8/3/2022	Prep Batch #:	Matrix:	TCLP
CTLab #:	1190192	Analysis Time:	14:53	Prep Date/Time:	Method:	SW8260C
Parent Sample #:	1166169	Analyst:	DGS	Prep Analyst:		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,1-Dichloroethene	1.17	mg/L	BDL		1.0	117	71 --- 131		20
1,2 Dichloroethane-d4	97.0	% Recovery			100	97.0	81 --- 118		
1,2-Dichloroethane	1.12	mg/L	BDL		1.0	112	73 --- 128		20
2-Butanone	10.6	mg/L	BDL		10.0	106	56 --- 143		20
Benzene	1.11	mg/L	BDL		1.0	111	79 --- 120		20
Bromofluorobenzene	97.0	% Recovery			100	97.0	85 --- 114		
Carbon tetrachloride	1.15	mg/L	BDL		1.0	115	72 --- 136		20
Chlorobenzene	1.10	mg/L	BDL		1.0	110	82 --- 118		20
Chloroform	1.08	mg/L	BDL		1.0	108	79 --- 124		20
d8-Toluene	101	% Recovery			100	101	89 --- 112		
Dibromofluoromethane	101	% Recovery			100	101	80 --- 119		
Tetrachloroethene	1.11	mg/L	BDL		1.0	111	74 --- 129		20
Trichloroethene	1.08	mg/L	BDL		1.0	108	79 --- 123		20
Vinyl chloride	1.16	mg/L	BDL		1.0	116	58 --- 137		20

Lab Control Spike Soil

Analytical Run #:	234050	Analysis Date:	8/2/2022	Prep Batch #:	96196	Matrix:	SOLID
CTLab #:	1166340	Analysis Time:	18:10	Prep Date/Time:	07/26/2022 09:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	496	ug/kg			500	99	47 --- 134		30
Aroclor-1221	0				0.5	0	70 --- 130		30
Aroclor-1232	0				0.5	0	70 --- 130		30
Aroclor-1242	0				0.5	0	70 --- 130		30
Aroclor-1248	0				0.5	0	70 --- 130		30
Aroclor-1254	0				0.5	0	67 --- 135		30
Aroclor-1260	488	ug/kg			500	98	53 --- 140		30
Aroclor-1262	0				0.5	0	70 --- 130		30
Aroclor-1268	0				0.5	0	70 --- 130		30
Surr: 2,4,5,6-TCMX	108	% Recovery			100	108	44 --- 130		
Surr: DCBP	107	% Recovery			100	107	54 --- 141		

Method Blank Soil

Analytical Run #:	234050	Analysis Date:	8/2/2022	Prep Batch #:	96196	Matrix:	SOLID
CTLab #:	1166339	Analysis Time:	17:48	Prep Date/Time:	07/26/2022 09:00	Method:	SW8082
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	JLH		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
Aroclor-1016	30	ug/kg		U	0			30	
Aroclor-1221	40	ug/kg		U	0			40	
Aroclor-1232	30	ug/kg		U	0			30	
Aroclor-1242	30	ug/kg		U	0			30	
Aroclor-1248	30	ug/kg		U	0			30	
Aroclor-1254	30	ug/kg		U	0			30	
Aroclor-1260	30	ug/kg		U	0			30	
Aroclor-1262	30	ug/kg		U	0			30	
Aroclor-1268	30	ug/kg		U	0			30	
Surr: 2,4,5,6-TCMX	108	% Recovery			100	108	44 ---	130	
Surr: DCBP	104	% Recovery			100	104	54 ---	141	

Lab Control Spike Water

Analytical Run #:	234072	Analysis Date:	8/3/2022	Prep Batch #:	106318	Matrix:	LIQUID
CTLab #:	1188674	Analysis Time:	15:01	Prep Date/Time:	08/02/2022 09:30	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.00351	mg/L			0.0040	88	65 --- 125		30
Chlordane (Technical)	0.0225	mg/L			0.0250	90	50 --- 150		30
Endrin	0.00329	mg/L			0.0040	82	55 --- 135		30
gamma-Chlordane	0.00354	mg/L			0.0040	88	60 --- 125		30
Heptachlor	0.00333	mg/L			0.0040	83	40 --- 130		30
Heptachlor epoxide	0.00346	mg/L			0.0040	86	60 --- 130		30
Lindane	0.00336	mg/L			0.0040	84	25 --- 135		30
Methoxychlor	0.00402	mg/L			0.0040	100	55 --- 150		30
SURR:2,4,5,6-CL4-m-xylene	73.0	% Recovery			100	73.0	25 --- 140		
SURR:Decachlorobiphenyl	53.5	% Recovery			100	53.5	30 --- 135		
Toxaphene	0.0231	mg/L			0.0250	92	50 --- 150		30

Method Blank Water

Analytical Run #:	234072	Analysis Date:	8/3/2022	Prep Batch #:	106318	Matrix:	LIQUID
CTLab #:	1188673	Analysis Time:	14:45	Prep Date/Time:	08/02/2022 09:30	Method:	SW8081B
Parent Sample #:		Analyst:	AJZ	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
alpha-Chlordane	0.000020	mg/L		U	0		000020		
Chlordane (Technical)	0.00040	mg/L		U	0		.00040		
Endrin	0.000020	mg/L		U	0		000020		
gamma-Chlordane	0.000020	mg/L		U	0		000020		
Heptachlor	0.000040	mg/L		U	0		000040		
Heptachlor epoxide	0.000020	mg/L		U	0		000020		
Lindane	0.000020	mg/L		U	0		000020		
Methoxychlor	0.000040	mg/L		U	0		000040		
SURR:2,4,5,6-CL4-m-xylene	65.2	% Recovery			100	65.2	25 --- 140		
SURR:Decachlorobiphenyl	74.1	% Recovery			100	74.1	30 --- 135		
Toxaphene	0.00040	mg/L		U	0		.00040		

Lab Control Spike Water

Analytical Run #:	234080	Analysis Date:	8/3/2022	Prep Batch #:	106307	Matrix:	LIQUID
CTLab #:	1188570	Analysis Time:	14:33	Prep Date/Time:	08/02/2022 09:30	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.106	mg/L			0.2	53	29 --- 112		20
2,4,5-Trichlorophenol	0.124	mg/L			0.2	62	53 --- 123		20
2,4,6-Trichlorophenol	0.122	mg/L			0.2	61	50 --- 125		20
2,4-Dinitrotoluene	0.136	mg/L			0.2	68	57 --- 128		20
2-Methylphenol	0.114	mg/L			0.2	57	30 --- 117		20
3 & 4-Methylphenol	0.111	mg/L			0.2	56	29 --- 110		20
Hexachlorobenzene	0.132	mg/L			0.2	66	53 --- 125		20
Hexachlorobutadiene	0.0934	mg/L			0.2	47	22 --- 124		20
Hexachloroethane	0.0968	mg/L			0.2	48	21 --- 115		20
Nitrobenzene	0.124	mg/L			0.2	62	45 --- 121		20
Pentachlorophenol	0.137	mg/L			0.2	68	35 --- 138		20
Pyridine	0.0567	mg/L			0.2	28	0 --- 106		20
Surr: 2,4,6-Tribromophenol	70.3	% Recovery			100	70.3	43 --- 140		
Surr: 2-Fluorobiphenyl	61.5	% Recovery			100	61.5	44 --- 119		
Surr: 2-Fluorophenol	50.3	% Recovery			100	50.3	19 --- 119		
Surr: Nitrobenzene-d5	64.9	% Recovery			100	64.9	44 --- 120		
Surr: Phenol-d5	42.5	% Recovery			100	42.5	1 --- 114		
Surr: Terphenyl-d14	72.8	% Recovery			100	72.8	50 --- 134		

Method Blank Water

Analytical Run #:	234080	Analysis Date:	8/3/2022	Prep Batch #:	106307	Matrix:	LIQUID
CTLab #:	1188569	Analysis Time:	14:10	Prep Date/Time:	08/02/2022 09:30	Method:	SW8270D
Parent Sample #:		Analyst:	JJY	Prep Analyst:	WMB		

Analyte	QC sample result	Units	Parent sample result	Qualifier(s)	Spike Amount Added	% Recovery	Control Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.0010	mg/L		U	0		0.0010		
2,4,5-Trichlorophenol	0.0050	mg/L		U	0		0.0050		
2,4,6-Trichlorophenol	0.0050	mg/L		U	0		0.0050		
2,4-Dinitrotoluene	0.0010	mg/L		U	0		0.0010		
2-Methylphenol	0.0050	mg/L		U	0		0.0050		
3 & 4-Methylphenol	0.0050	mg/L		U	0		0.0050		
Hexachlorobenzene	0.0010	mg/L		U	0		0.0010		
Hexachlorobutadiene	0.0010	mg/L		U	0		0.0010		
Hexachloroethane	0.0010	mg/L		U	0		0.0010		
Nitrobenzene	0.0010	mg/L		U	0		0.0010		
Pentachlorophenol	0.0050	mg/L		U	0		0.0050		
Pyridine	0.0020	mg/L		U	0		0.0020		
Surr: 2,4,6-Tribromophenol	62.3	% Recovery			100	62.3	43 --- 140		
Surr: 2-Fluorobiphenyl	58.1	% Recovery			100	58.1	44 --- 119		
Surr: 2-Fluorophenol	43.0	% Recovery			100	43.0	19 --- 119		
Surr: Nitrobenzene-d5	60.3	% Recovery			100	60.3	44 --- 120		
Surr: Phenol-d5	35.5	% Recovery			100	35.5	1 --- 114		
Surr: Terphenyl-d14	75.9	% Recovery			100	75.9	50 --- 134		

Sample Condition Report

Folder #: 170984	Print Date / Time: 07/22/2022 10:37
Client: AECOM	Received Date / Time / By: 07/22/2022 09:17 erc
Project Name: MILL POND	Log-In Date / Time / By: 07/22/2022 10:37 erc
Project Phase: IDW	Project #: 60685299 PM: ETK
Coolers: 6550, 6409, 5676	Temperature: 2.5 C On Ice: Y
Custody Seals Present : Y	COC Present?: Y Complete? Y
Seal Intact? Y	Numbers: DATED AND SIGNED
Ship Method: UPS GROUND	Tracking Number: 3 TRACKING NUMBERS
Adequate Packaging: Y	Temp Blank Enclosed? Y

Notes: SAMPLES RECEIVED IN GOOD CONDITION ON ICE. 1 CUSTODY SEAL PRESENT AND INTACT ON ALL COOLERS, ALL DATED 7-21-2022 AND SIGNED. TRACKING NUMBERS: 1Z 52F 5F9 03 9076 8936, "2049 7517, "2409 9891.

Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1166169 SB1_(0-12)	AMBER GL	1	/	8270,HERBS,PEST
		Total # of Containers of Type (AMBER GL) = 1		
1166169 SB1_(0-12)	SOLIDS	1	N / N	HG,ICP
		Total # of Containers of Type (SOLIDS) = 1		
1166169 SB1_(0-12)	JAR GL	1	/	VOC
		Total # of Containers of Type (JAR GL) = 1		
Sample ID / Description	Container Type	Cond. Code	pH OK?/Filtered?	Tests
1166170 SB1_(0-12)	SOLIDS	1	N / N	%SOL,CN React,FLASH,FLIQ,pH,S2 React
	SOLIDS	1	N / N	%SOL,CN React,FLASH,FLIQ,pH,S2 React
		Total # of Containers of Type (SOLIDS) = 2		
1166170 SB1_(0-12)	UNPRES GL	1	/	PCB
		Total # of Containers of Type (UNPRES GL) = 1		

Condition Code	Condition Description
1	Sample Received OK

Company: AECOM
 Project Contact: Tory Schultz
 Telephone: 414-600-8405
 Project Name: Oak Creek Mill Pond
 Project #: 600645249
 Location:
 Sampled By: Brittany Grosskopf
 Garrett Schacht

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To: Tory Schultz
 EMAIL: tory.schultz@aecom.com
 Company: AECOM
 Address:

Folder #: 170984
 Company: AECOM
 Project: MILL POND

Program:
 QSM RCRA SDWA NPDES
 Solid Waste Other _____

Invoice To:
 EMAIL:
 Company:
 Address:

Logged By: erc PM: ETK

PO #

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

List A = Ammonia, Phosphorus, Nitrate, Metals, pH, TKN, % Solids, PAHs, PCBs, Cyanide, O&G HEM, Hydrometer
 Protocol B = TCLP (SVOCs, Pest, Herb, Metals), PCBs, Cyanide/Sulfide React, pH flashpoint, Free Liquids, and VOC TCLP

Matrix:
 GW - groundwater SW - surface water WW - wastewater DW - drinking water
 S - soil/sediment SL - sludge A - air M - misc/waste

ANALYSES REQUESTED

Filtered? Y/N

Protocol B

Total # Containers

Designated MS/MSD

Turnaround Time
 Normal RUSH*
 Date Needed: _____
 Rush analysis requires prior
 CT Laboratories' approval
 Surcharges:
 24 hr 200%
 2-3 days 100%
 4-9 days 50%

Collection		Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test										Total # Containers	Designated MS/MSD	CT Lab ID # <small>Lab use only</small>
Date	Time																		
7/20/22	11:30	S	G		SB2-10-12)	N	X										5	1166169, 70	
<p>65 7-22-2022</p>																			

Relinquished By: Garrett Schacht	Date/Time 7/22/2022 1400	Received By:	Date/Time	Lab Use Only Ice Present <input checked="" type="checkbox"/> Yes No
Received by:	Date/Time	Received for Laboratory by: Fuc	Date/Time 7/22/2022 11:20	Temp 126 IR Gun 27 Cooler # 6550, 6409, 5676

Cooler Receipt Form

Ice Present YES NO
Observed Temperature 25
Actual Temperature _____
IR Gun # 27
Initials EM
Date 7/21/22 Time 9:17
Cooler #: 6550

GARRET SCHACHT
(820) 471-8854
THE UPS STORE #2324
1345 N JEFFERSON ST
MILWAUKEE WI 53202-2657

52 LBS 1 OF 1
SHP WT: 52 LBS
DATE: 21 JUL 2022

SHIP CS LOGISTICS
TO: #230 LANGE CT

BARABOO WI 53913-3109

WI 539 0-10

JPS GROUND

TRACKING #: 1Z 52F 5F9 03 2409 9891

CUSTOMER SEAL
QEC
Quality Environmental Certification
800.855.3830 • www.qecusa.com
DATE 7-22-22
SIGNATURE EM

BILLING: P/P

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