



CERTIFICATE OF ANALYSIS

<p>Work Order : FC2300864</p> <p>Client : Regional Municipality of Wood Buffalo</p> <p>Contact : Water Treatment Plant</p> <p>Address : 1 Silin Forest Road Fort McMurray AB Canada T9H 5A1</p> <p>Telephone : 780-762-5863</p> <p>Project : Fort Chipewyan Imperial Release</p> <p>PO : 4500049712</p> <p>C-O-C number : ----</p> <p>Sampler : DM</p> <p>Site : Schedule 4: Fort Chip</p> <p>Quote number : Q61323 (Fort chip)</p> <p>No. of samples received : 3</p> <p>No. of samples analysed : 3</p>	<p>Page : 1 of 7</p> <p>Laboratory : Fort McMurray - Environmental</p> <p>Account Manager : Megan Trydal</p> <p>Address : #4, 340 Macalpine Crescent Fort McMurray AB Canada T9H 4A8</p> <p>Telephone : +1 780 791 1524</p> <p>Date Samples Received : 12-Apr-2023 08:30</p> <p>Date Analysis Commenced : 12-Apr-2023</p> <p>Issue Date : 14-Apr-2023 16:07</p>
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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
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Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
meq/L	milliequivalents per litre
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Raw Water-Lake Intake	Raw Water Chamber WTP	Treated Water	----	----
Client sampling date / time					11-Apr-2023 09:00	11-Apr-2023 09:00	11-Apr-2023 09:00	----	----	
Analyte	CAS Number	Method	LOR	Unit	FC2300864-001 Result	FC2300864-002 Result	FC2300864-003 Result	----- ----	----- ----	
Physical Tests										
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290	1.0	mg/L	31.1	34.4	50.3	----	----	
Alkalinity, carbonate (as CO3)	3812-32-6	E290	1.0	mg/L	<1.0	<1.0	2.8	----	----	
Alkalinity, hydroxide (as OH)	14280-30-9	E290	1.0	mg/L	<1.0	<1.0	<1.0	----	----	
Alkalinity, total (as CaCO3)	----	E290	1.0	mg/L	25.5	28.2	45.8	----	----	
Conductivity	----	E100	1.0	µS/cm	72.2	80.3	140	----	----	
Hardness (as CaCO3), dissolved	----	EC100	0.50	mg/L	29.5	32.7	35.2	----	----	
pH	----	E108	0.10	pH units	7.39	7.36	8.73	----	----	
Salinity	----	EC100S	1.0	psu	<1.0	<1.0	<1.0	----	----	
Solids, total dissolved [TDS], calculated	----	EC103	1.0	mg/L	43.7	46.9	79.2	----	----	
Anions and Nutrients										
Chloride	16887-00-6	E235.Cl	0.50	mg/L	3.76	3.72	12.5	----	----	
Fluoride	16984-48-8	E235.F	0.020	mg/L	0.105	0.084	0.032	----	----	
Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.112	0.116	0.094	----	----	
Nitrate + Nitrite (as N)	----	EC235.N+N	0.0300	mg/L	0.112	0.116	0.0940	----	----	
Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	<0.010	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4	0.30	mg/L	3.52	3.42	2.80	----	----	
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395	0.0015	mg/L	----	<0.0015	<0.0015	----	----	
Ion Balance										
Anion sum	----	EC101	0.10	meq/L	0.70	0.75	1.33	----	----	
Cation sum	----	EC101	0.10	meq/L	0.74	0.82	1.44	----	----	
Ion balance (APHA)	----	EC101	0.01	%	2.78	4.46	3.97	----	----	
Ion balance (cations/anions)	----	EC101	0.010	%	106	109	108	----	----	
Total Metals										
Aluminum, total	7429-90-5	E420	0.0030	mg/L	0.432	0.189	0.0201	----	----	
Antimony, total	7440-36-0	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Arsenic, total	7440-38-2	E420	0.00010	mg/L	0.00044	0.00031	0.00018	----	----	
Barium, total	7440-39-3	E420	0.00010	mg/L	0.0176	0.0187	0.0166	----	----	



Analytical Results

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Analyte	CAS Number	Method	LOR	Unit	FC2300864-001	FC2300864-002	FC2300864-003	-----	-----	
					Result	Result	Result	----	----	
Total Metals										
Beryllium, total	7440-41-7	E420	0.000020	mg/L	<0.000020	<0.000020	<0.000020	----	----	
Bismuth, total	7440-69-9	E420	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	
Boron, total	7440-42-8	E420	0.010	mg/L	0.014	0.016	0.016	----	----	
Cadmium, total	7440-43-9	E420	0.0000050	mg/L	0.00263	0.0000063	<0.0000050	----	----	
Calcium, total	7440-70-2	E420	0.050	mg/L	8.28	9.07	9.91	----	----	
Cesium, total	7440-46-2	E420	0.000010	mg/L	0.000079	0.000020	<0.000010	----	----	
Chromium, total	7440-47-3	E420	0.000050	mg/L	0.00075	<0.000050	<0.000050	----	----	
Cobalt, total	7440-48-4	E420	0.00010	mg/L	0.00015	<0.00010	<0.00010	----	----	
Copper, total	7440-50-8	E420	0.000050	mg/L	0.00174	0.00135	0.00063	----	----	
Iron, total	7439-89-6	E420	0.010	mg/L	0.560	0.164	<0.010	----	----	
Lead, total	7439-92-1	E420	0.000050	mg/L	0.000668	0.000102	<0.000050	----	----	
Lithium, total	7439-93-2	E420	0.0010	mg/L	0.0033	0.0035	0.0032	----	----	
Magnesium, total	7439-95-4	E420	0.0050	mg/L	2.49	2.76	2.69	----	----	
Manganese, total	7439-96-5	E420	0.00010	mg/L	0.0107	0.00579	0.00374	----	----	
Molybdenum, total	7439-98-7	E420	0.000050	mg/L	0.000308	0.000227	0.000200	----	----	
Nickel, total	7440-02-0	E420	0.000050	mg/L	0.00086	0.00052	<0.000050	----	----	
Phosphorus, total	7723-14-0	E420	0.050	mg/L	<0.050	<0.050	<0.050	----	----	
Potassium, total	7440-09-7	E420	0.050	mg/L	1.22	1.13	1.07	----	----	
Rubidium, total	7440-17-7	E420	0.00020	mg/L	0.00182	0.00140	0.00104	----	----	
Selenium, total	7782-49-2	E420	0.000050	mg/L	0.000104	0.000083	0.000070	----	----	
Silicon, total	7440-21-3	E420	0.10	mg/L	3.40	2.97	2.39	----	----	
Silver, total	7440-22-4	E420	0.000010	mg/L	0.000353	<0.000010	<0.000010	----	----	
Sodium, total	7440-23-5	E420	0.05	mg/L	1412.218	----	----	----	----	
Sodium, total	7440-23-5	E420	0.050	mg/L	----	3.52	16.1	----	----	
Strontium, total	7440-24-6	E420	0.00020	mg/L	0.0574	0.0627	0.0654	----	----	
Sulfur, total	7704-34-9	E420	0.50	mg/L	1.25	1.03	0.78	----	----	
Tellurium, total	13494-80-9	E420	0.00020	mg/L	<0.00020	<0.00020	<0.00020	----	----	
Thallium, total	7440-28-0	E420	0.000010	mg/L	0.000013	<0.000010	<0.000010	----	----	
Thorium, total	7440-29-1	E420	0.00010	mg/L	0.00012	<0.00010	<0.00010	----	----	



Analytical Results

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Client sampling date / time					11-Apr-2023 09:00	11-Apr-2023 09:00	11-Apr-2023 09:00	----	----	
Analyte	CAS Number	Method	LOR	Unit	FC2300864-001 Result	FC2300864-002 Result	FC2300864-003 Result	----- ----	----- ----	
Total Metals										
Tin, total	7440-31-5	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Titanium, total	7440-32-6	E420	0.00030	mg/L	0.0139	0.00432	<0.00030	----	----	
Tungsten, total	7440-33-7	E420	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Uranium, total	7440-61-1	E420	0.000010	mg/L	0.000119	0.000096	<0.000010	----	----	
Vanadium, total	7440-62-2	E420	0.00050	mg/L	0.00148	0.00126	0.00061	----	----	
Zinc, total	7440-66-6	E420	0.003	mg/L	922.2817090 86	----	----	----	----	
Zinc, total	7440-66-6	E420	0.0030	mg/L	----	0.128	0.0431	----	----	
Zirconium, total	7440-67-7	E420	0.00020	mg/L	0.00044	<0.00020	<0.00020	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421	0.0010	mg/L	0.0048	0.0084	0.0175	----	----	
Antimony, dissolved	7440-36-0	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Arsenic, dissolved	7440-38-2	E421	0.00010	mg/L	0.00017	0.00019	0.00012	----	----	
Barium, dissolved	7440-39-3	E421	0.00010	mg/L	0.0135	0.0163	0.0168	----	----	
Beryllium, dissolved	7440-41-7	E421	0.000020	mg/L	<0.000020	<0.000020	<0.000020	----	----	
Bismuth, dissolved	7440-69-9	E421	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	
Boron, dissolved	7440-42-8	E421	0.010	mg/L	0.014	0.014	0.015	----	----	
Cadmium, dissolved	7440-43-9	E421	0.0000050	mg/L	0.0000312	<0.0000050	<0.0000050	----	----	
Calcium, dissolved	7440-70-2	E421	0.050	mg/L	7.87	8.67	9.65	----	----	
Cesium, dissolved	7440-46-2	E421	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	
Chromium, dissolved	7440-47-3	E421	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	
Cobalt, dissolved	7440-48-4	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Copper, dissolved	7440-50-8	E421	0.00020	mg/L	0.00062	0.00097	0.00044	----	----	
Iron, dissolved	7439-89-6	E421	0.010	mg/L	0.011	0.022	<0.010	----	----	
Lead, dissolved	7439-92-1	E421	0.000050	mg/L	<0.000050	<0.000050	<0.000050	----	----	
Lithium, dissolved	7439-93-2	E421	0.0010	mg/L	0.0030	0.0029	0.0030	----	----	
Magnesium, dissolved	7439-95-4	E421	0.0050	mg/L	2.40	2.69	2.70	----	----	
Manganese, dissolved	7439-96-5	E421	0.00010	mg/L	0.00167	0.00320	0.00111	----	----	
Molybdenum, dissolved	7439-98-7	E421	0.000050	mg/L	0.000218	0.000221	0.000199	----	----	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Raw Water-Lake Intake	Raw Water Chamber WTP	Treated Water	----	----
Client sampling date / time					11-Apr-2023 09:00	11-Apr-2023 09:00	11-Apr-2023 09:00	----	----	
Analyte	CAS Number	Method	LOR	Unit	FC2300864-001 Result	FC2300864-002 Result	FC2300864-003 Result	----- ----	----- ----	
Dissolved Metals										
Nickel, dissolved	7440-02-0	E421	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	
Phosphorus, dissolved	7723-14-0	E421	0.050	mg/L	<0.050	<0.050	<0.050	----	----	
Potassium, dissolved	7440-09-7	E421	0.050	mg/L	0.942	1.07	1.06	----	----	
Rubidium, dissolved	7440-17-7	E421	0.00020	mg/L	0.00094	0.00091	0.00091	----	----	
Selenium, dissolved	7782-49-2	E421	0.000050	mg/L	0.000059	0.000061	<0.000050	----	----	
Silicon, dissolved	7440-21-3	E421	0.050	mg/L	2.34	2.46	2.34	----	----	
Silver, dissolved	7440-22-4	E421	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	
Sodium, dissolved	7440-23-5	E421	0.050	mg/L	2.92	3.13	16.2	----	----	
Strontium, dissolved	7440-24-6	E421	0.00020	mg/L	0.0571	0.0631	0.0649	----	----	
Sulfur, dissolved	7704-34-9	E421	0.50	mg/L	0.83	0.90	1.08	----	----	
Tellurium, dissolved	13494-80-9	E421	0.00020	mg/L	<0.00020	<0.00020	<0.00020	----	----	
Thallium, dissolved	7440-28-0	E421	0.000010	mg/L	<0.000010	<0.000010	<0.000010	----	----	
Thorium, dissolved	7440-29-1	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Tin, dissolved	7440-31-5	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Titanium, dissolved	7440-32-6	E421	0.00030	mg/L	<0.00030	0.00037	<0.00030	----	----	
Tungsten, dissolved	7440-33-7	E421	0.00010	mg/L	<0.00010	<0.00010	<0.00010	----	----	
Uranium, dissolved	7440-61-1	E421	0.000010	mg/L	0.000085	0.000078	<0.000010	----	----	
Vanadium, dissolved	7440-62-2	E421	0.00050	mg/L	<0.00050	<0.00050	<0.00050	----	----	
Zinc, dissolved	7440-66-6	E421	0.0010	mg/L	0.0056	<0.0010	<0.0010	----	----	
Zirconium, dissolved	7440-67-7	E421	0.00030	mg/L	<0.00030	<0.00030	<0.00030	----	----	
Dissolved metals filtration location	----	EP421	-	-	Laboratory	Laboratory	Laboratory	----	----	
Aggregate Organics										
Naphthenic acids	----	E565-L	0.10	mg/L	<0.10	<0.10	<0.10	----	----	
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50	<0.50	----	----	
Ethylbenzene	100-41-4	E611A	0.50	µg/L	<0.50	<0.50	<0.50	----	----	
Styrene	100-42-5	E611A	0.50	µg/L	<0.50	<0.50	<0.50	----	----	
Toluene	108-88-3	E611A	0.50	µg/L	<0.50	<0.50	<0.50	----	----	
Xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0.40	<0.40	----	----	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Raw Water-Lake Intake	Raw Water Chamber WTP	Treated Water	----	----
Client sampling date / time					11-Apr-2023 09:00	11-Apr-2023 09:00	11-Apr-2023 09:00	----	----	
Analyte	CAS Number	Method	LOR	Unit	FC2300864-001	FC2300864-002	FC2300864-003	-----	-----	
					Result	Result	Result	----	----	
Volatile Organic Compounds [Fuels]										
Xylene, o-	95-47-6	E611A	0.30	µg/L	<0.30	<0.30	<0.30	----	----	
Xylenes, total	1330-20-7	E611A	0.50	µg/L	<0.50	<0.50	<0.50	----	----	
BTEX, total	----	E611A	1.0	µg/L	<1.0	<1.0	<1.0	----	----	
Hydrocarbons										
F1 (C6-C10)	----	E581.F1	100	µg/L	<100	<100	<100	----	----	
F1-BTEX	----	EC580	25	µg/L	<100	<100	<100	----	----	
F2 (C10-C16)	----	E601	100	µg/L	<100	<100	<100	----	----	
F3 (C16-C34)	----	E601	250	µg/L	<250	<250	<250	----	----	
F4 (C34-C50)	----	E601	250	µg/L	<250	<250	<250	----	----	
Hydrocarbons, total (C6-C50)	----	EC581	370	µg/L	<380	<380	<380	----	----	
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601	1.0	%	94.7	93.5	97.4	----	----	
Dichlorotoluene, 3,4-	95-75-0	E581.F1	1.0	%	106	106	105	----	----	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A	1.0	%	97.0	97.7	96.6	----	----	
Difluorobenzene, 1,4-	540-36-3	E611A	1.0	%	99.2	99.8	89.5	----	----	
Polycyclic Aromatic Hydrocarbons										
Benzo(a)pyrene	50-32-8	E641A	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	----	----	
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A	0.1	%	107	107	105	----	----	
Naphthalene-d8	1146-65-2	E641A	0.1	%	84.7	85.3	94.2	----	----	
Phenanthrene-d10	1517-22-2	E641A	0.1	%	109	110	110	----	----	

Please refer to the General Comments section for an explanation of any qualifiers detected.



CERTIFICATE OF ANALYSIS

Work Order	: FC2300864	Page	: 1 of 11
Client	: Regional Municipality of Wood Buffalo	Laboratory	: Fort McMurray - Environmental
Contact	: Water Treatment Plant	Account Manager	: Megan Trydal
Address	: 1 Silin Forest Road Fort McMurray AB Canada T9H 5A1	Address	: #4, 340 Macalpine Crescent Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	Telephone	: +1 780 791 1524
Project	: Fort Chipewyan Imperial Release	Date Samples Received	: 12-Apr-2023 08:30
PO	: 4500049712	Date Analysis	: 12-Apr-2023
C-O-C number	: ----	Commenced	
Sampler	: DM	Issue Date	: 14-Apr-2023 16:07
Site	: Schedule 4: Fort Chip		
Quote number	: Q61323 (Fort chip)		
No. of samples received	: 3		
No. of samples analysed	: 3		

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Signatories

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<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
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Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Caitlin Macey	Team Leader - Inorganics	Inorganics, Burnaby, British Columbia
Christian Murera	Lab Analyst	Organics, Edmonton, Alberta
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The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances

LOR: Limit of Reporting (detection limit).

Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
meq/L	milliequivalents per litre
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units

>: greater than.

<: less than.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

FC2300864-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water-Lake Intake

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	31.1	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, carbonate (as CO3)	3812-32-6	<1.0	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, hydroxide (as OH)	14280-30-9	<1.0	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, total (as CaCO3)	----	25.5	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Conductivity	----	72.2	1.0	µS/cm	E100	12-Apr-2023	12-Apr-2023	894571
Hardness (as CaCO3), dissolved	----	29.5	0.50	mg/L	EC100	-	13-Apr-2023	-
pH	----	7.39	0.10	pH units	E108	12-Apr-2023	12-Apr-2023	894570
Salinity	----	<1.0	1.0	psu	EC100S	-	14-Apr-2023	-
Solids, total dissolved [TDS], calculated	----	43.7	1.0	mg/L	EC103	-	13-Apr-2023	-
Anions and Nutrients								
Chloride	16887-00-6	3.76	0.50	mg/L	E235.Cl	12-Apr-2023	12-Apr-2023	894582
Fluoride	16984-48-8	0.105	0.020	mg/L	E235.F	12-Apr-2023	12-Apr-2023	894579
Nitrate (as N)	14797-55-8	0.112	0.020	mg/L	E235.NO3	12-Apr-2023	12-Apr-2023	894580
Nitrate + Nitrite (as N)	----	0.112	0.03	mg/L	EC235.N+N	-	13-Apr-2023	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2	12-Apr-2023	12-Apr-2023	894581
Sulfate (as SO4)	14808-79-8	3.52	0.30	mg/L	E235.SO4	12-Apr-2023	12-Apr-2023	894583
Ion Balance								
Anion sum	----	0.70	0.10	meq/L	EC101	-	13-Apr-2023	-
Cation sum	----	0.74	0.10	meq/L	EC101	-	13-Apr-2023	-
Ion balance (APHA)	----	2.78	0.01	%	EC101	-	13-Apr-2023	-
Ion balance (cations/anions)	----	106	0.010	%	EC101	-	13-Apr-2023	-
Total Metals								
Aluminum, total	7429-90-5	0.432	0.0030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Arsenic, total	7440-38-2	0.00044	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Barium, total	7440-39-3	0.0176	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Boron, total	7440-42-8	0.014	0.010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cadmium, total	7440-43-9	0.00263	0.0000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Calcium, total	7440-70-2	8.28	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cesium, total	7440-46-2	0.000079	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Chromium, total	7440-47-3	0.00075	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cobalt, total	7440-48-4	0.00015	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Copper, total	7440-50-8	0.00174	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Iron, total	7439-89-6	0.560	0.010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Lead, total	7439-92-1	0.000668	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Lithium, total	7439-93-2	0.0033	0.0010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Magnesium, total	7439-95-4	2.49	0.0050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Manganese, total	7439-96-5	0.0107	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Molybdenum, total	7439-98-7	0.000308	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Nickel, total	7440-02-0	0.00086	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Potassium, total	7440-09-7	1.22	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Rubidium, total	7440-17-7	0.00182	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Selenium, total	7782-49-2	0.000104	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297



Analytical Results

FC2300864-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water-Lake Intake

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLOT
Total Metals								
Silicon, total	7440-21-3	3.40	0.10	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Silver, total	7440-22-4	0.000353	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Sodium, total	7440-23-5	1412.218	0.05	mg/L	E420	12-Apr-2023	13-Apr-2023	894297
Strontium, total	7440-24-6	0.0574	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Sulfur, total	7704-34-9	1.25	0.50	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Thallium, total	7440-28-0	0.000013	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Thorium, total	7440-29-1	0.00012	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Titanium, total	7440-32-6	0.0139	0.00030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Uranium, total	7440-61-1	0.000119	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Vanadium, total	7440-62-2	0.00148	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Zinc, total	7440-66-6	922.281709	0.003	mg/L	E420	12-Apr-2023	13-Apr-2023	894297
		086						
Zirconium, total	7440-67-7	0.00044	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0048	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Arsenic, dissolved	7440-38-2	0.00017	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Barium, dissolved	7440-39-3	0.0135	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Boron, dissolved	7440-42-8	0.014	0.010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cadmium, dissolved	7440-43-9	0.0000312	0.0000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Calcium, dissolved	7440-70-2	7.87	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Copper, dissolved	7440-50-8	0.00062	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Iron, dissolved	7439-89-6	0.011	0.010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Magnesium, dissolved	7439-95-4	2.40	0.0050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Manganese, dissolved	7439-96-5	0.00167	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Molybdenum, dissolved	7439-98-7	0.000218	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Potassium, dissolved	7440-09-7	0.942	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Rubidium, dissolved	7440-17-7	0.00094	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Selenium, dissolved	7782-49-2	0.000059	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Silicon, dissolved	7440-21-3	2.34	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Sodium, dissolved	7440-23-5	2.92	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Strontium, dissolved	7440-24-6	0.0571	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Sulfur, dissolved	7704-34-9	0.83	0.50	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296



Analytical Results

FC2300864-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water-Lake Intake

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Uranium, dissolved	7440-61-1	0.000085	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Zinc, dissolved	7440-66-6	0.0056	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Dissolved metals filtration location	----	Laboratory	-	-	EP421	-	12-Apr-2023	894296
Aggregate Organics								
Naphthenic acids	----	<0.10	0.10	mg/L	E565-L	12-Apr-2023	13-Apr-2023	894307
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Styrene	100-42-5	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Toluene	108-88-3	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
BTEX, total	----	<1.0	1.0	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1	12-Apr-2023	12-Apr-2023	894233
F1-BTEX	----	<100	100	µg/L	EC580	-	13-Apr-2023	-
F2 (C10-C16)	----	<100	100	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
F3 (C16-C34)	----	<250	250	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
F4 (C34-C50)	----	<250	250	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
Hydrocarbons, total (C6-C50)	----	<380	380	µg/L	EC581	-	13-Apr-2023	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	94.7	1.0	%	E601	12-Apr-2023	12-Apr-2023	894214
Dichlorotoluene, 3,4-	95-75-0	106	1.0	%	E581.F1	12-Apr-2023	12-Apr-2023	894233
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.0	1.0	%	E611A	12-Apr-2023	12-Apr-2023	894234
Difluorobenzene, 1,4-	540-36-3	99.2	1.0	%	E611A	12-Apr-2023	12-Apr-2023	894234
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0000050	0.0000050	mg/L	E641A	12-Apr-2023	12-Apr-2023	894215
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215
Naphthalene-d8	1146-65-2	84.7	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215
Phenanthrene-d10	1517-22-2	109	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

FC2300864-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber WTP

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLOT
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	34.4	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, carbonate (as CO3)	3812-32-6	<1.0	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, hydroxide (as OH)	14280-30-9	<1.0	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, total (as CaCO3)	----	28.2	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Conductivity	----	80.3	1.0	µS/cm	E100	12-Apr-2023	12-Apr-2023	894571
Hardness (as CaCO3), dissolved	----	32.7	0.50	mg/L	EC100	-	13-Apr-2023	-
pH	----	7.36	0.10	pH units	E108	12-Apr-2023	12-Apr-2023	894570
Salinity	----	<1.0	1.0	psu	EC100S	-	14-Apr-2023	-
Solids, total dissolved [TDS], calculated	----	46.9	1.0	mg/L	EC103	-	13-Apr-2023	-
Anions and Nutrients								
Chloride	16887-00-6	3.72	0.50	mg/L	E235.Cl	12-Apr-2023	12-Apr-2023	894582
Fluoride	16984-48-8	0.084	0.020	mg/L	E235.F	12-Apr-2023	12-Apr-2023	894579
Nitrate (as N)	14797-55-8	0.116	0.020	mg/L	E235.NO3	12-Apr-2023	12-Apr-2023	894580
Nitrate + Nitrite (as N)	----	0.116	0.03	mg/L	EC235.N+N	-	13-Apr-2023	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2	12-Apr-2023	12-Apr-2023	894581
Sulfate (as SO4)	14808-79-8	3.42	0.30	mg/L	E235.SO4	12-Apr-2023	12-Apr-2023	894583
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395	-	13-Apr-2023	896445
Ion Balance								
Anion sum	----	0.75	0.10	meq/L	EC101	-	13-Apr-2023	-
Cation sum	----	0.82	0.10	meq/L	EC101	-	13-Apr-2023	-
Ion balance (APHA)	----	4.46	0.01	%	EC101	-	13-Apr-2023	-
Ion balance (cations/anions)	----	109	0.010	%	EC101	-	13-Apr-2023	-
Total Metals								
Aluminum, total	7429-90-5	0.189	0.0030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Arsenic, total	7440-38-2	0.00031	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Barium, total	7440-39-3	0.0187	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Boron, total	7440-42-8	0.016	0.010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cadmium, total	7440-43-9	0.0000063	0.0000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Calcium, total	7440-70-2	9.07	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cesium, total	7440-46-2	0.000020	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Copper, total	7440-50-8	0.00135	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Iron, total	7439-89-6	0.164	0.010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Lead, total	7439-92-1	0.000102	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Lithium, total	7439-93-2	0.0035	0.0010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Magnesium, total	7439-95-4	2.76	0.0050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Manganese, total	7439-96-5	0.00579	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Molybdenum, total	7439-98-7	0.000227	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Nickel, total	7440-02-0	0.00052	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Potassium, total	7440-09-7	1.13	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297



Analytical Results

FC2300864-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber WTP

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLOT
Total Metals								
Rubidium, total	7440-17-7	0.00140	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Selenium, total	7782-49-2	0.000083	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Silicon, total	7440-21-3	2.97	0.10	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Sodium, total	7440-23-5	3.52	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Strontium, total	7440-24-6	0.0627	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Sulfur, total	7704-34-9	1.03	0.50	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Titanium, total	7440-32-6	0.00432	0.00030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Uranium, total	7440-61-1	0.000096	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Vanadium, total	7440-62-2	0.00126	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Zinc, total	7440-66-6	0.128	0.0030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0084	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Arsenic, dissolved	7440-38-2	0.00019	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Barium, dissolved	7440-39-3	0.0163	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Boron, dissolved	7440-42-8	0.014	0.010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Calcium, dissolved	7440-70-2	8.67	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Copper, dissolved	7440-50-8	0.00097	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Iron, dissolved	7439-89-6	0.022	0.010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Lithium, dissolved	7439-93-2	0.0029	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Magnesium, dissolved	7439-95-4	2.69	0.0050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Manganese, dissolved	7439-96-5	0.00320	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Molybdenum, dissolved	7439-98-7	0.000221	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Potassium, dissolved	7440-09-7	1.07	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Rubidium, dissolved	7440-17-7	0.00091	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Selenium, dissolved	7782-49-2	0.000061	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Silicon, dissolved	7440-21-3	2.46	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Sodium, dissolved	7440-23-5	3.13	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Strontium, dissolved	7440-24-6	0.0631	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296



Analytical Results

FC2300864-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber WTP

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	0.90	0.50	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Titanium, dissolved	7440-32-6	0.00037	0.00030	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Uranium, dissolved	7440-61-1	0.000078	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Dissolved metals filtration location	----	Laboratory	-	-	EP421	-	12-Apr-2023	894296
Aggregate Organics								
Naphthenic acids	----	<0.10	0.10	mg/L	E565-L	12-Apr-2023	13-Apr-2023	894307
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Styrene	100-42-5	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Toluene	108-88-3	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
BTEX, total	----	<1.0	1.0	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1	12-Apr-2023	12-Apr-2023	894233
F1-BTEX	----	<100	100	µg/L	EC580	-	13-Apr-2023	-
F2 (C10-C16)	----	<100	100	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
F3 (C16-C34)	----	<250	250	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
F4 (C34-C50)	----	<250	250	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
Hydrocarbons, total (C6-C50)	----	<380	380	µg/L	EC581	-	13-Apr-2023	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	93.5	1.0	%	E601	12-Apr-2023	12-Apr-2023	894214
Dichlorotoluene, 3,4-	95-75-0	106	1.0	%	E581.F1	12-Apr-2023	12-Apr-2023	894233
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	97.7	1.0	%	E611A	12-Apr-2023	12-Apr-2023	894234
Diffuorobenzene, 1,4-	540-36-3	99.8	1.0	%	E611A	12-Apr-2023	12-Apr-2023	894234
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0000050	0.0000050	mg/L	E641A	12-Apr-2023	12-Apr-2023	894215
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	107	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215
Naphthalene-d8	1146-65-2	85.3	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215

Please refer to the General Comments section for an explanation of any qualifiers detected.



Analytical Results

FC2300864-003

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLOT
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	50.3	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, carbonate (as CO ₃)	3812-32-6	2.8	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, hydroxide (as OH)	14280-30-9	<1.0	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Alkalinity, total (as CaCO ₃)	----	45.8	1.0	mg/L	E290	12-Apr-2023	12-Apr-2023	894572
Conductivity	----	140	1.0	µS/cm	E100	12-Apr-2023	12-Apr-2023	894571
Hardness (as CaCO ₃), dissolved	----	35.2	0.50	mg/L	EC100	-	13-Apr-2023	-
pH	----	8.73	0.10	pH units	E108	12-Apr-2023	12-Apr-2023	894570
Salinity	----	<1.0	1.0	psu	EC100S	-	14-Apr-2023	-
Solids, total dissolved [TDS], calculated	----	79.2	1.0	mg/L	EC103	-	13-Apr-2023	-
Anions and Nutrients								
Chloride	16887-00-6	12.5	0.50	mg/L	E235.Cl	12-Apr-2023	12-Apr-2023	894582
Fluoride	16984-48-8	0.032	0.020	mg/L	E235.F	12-Apr-2023	12-Apr-2023	894579
Nitrate (as N)	14797-55-8	0.094	0.020	mg/L	E235.NO3	12-Apr-2023	12-Apr-2023	894580
Nitrate + Nitrite (as N)	----	0.0940	0.03	mg/L	EC235.N+N	-	13-Apr-2023	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2	12-Apr-2023	12-Apr-2023	894581
Sulfate (as SO ₄)	14808-79-8	2.80	0.30	mg/L	E235.SO4	12-Apr-2023	12-Apr-2023	894583
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395	-	13-Apr-2023	896445
Ion Balance								
Anion sum	----	1.33	0.10	meq/L	EC101	-	13-Apr-2023	-
Cation sum	----	1.44	0.10	meq/L	EC101	-	13-Apr-2023	-
Ion balance (APHA)	----	3.97	0.01	%	EC101	-	13-Apr-2023	-
Ion balance (cations/anions)	----	108	0.010	%	EC101	-	13-Apr-2023	-
Total Metals								
Aluminum, total	7429-90-5	0.0201	0.0030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Arsenic, total	7440-38-2	0.00018	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Barium, total	7440-39-3	0.0166	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Boron, total	7440-42-8	0.016	0.010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cadmium, total	7440-43-9	<0.000050	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Calcium, total	7440-70-2	9.91	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Copper, total	7440-50-8	0.00063	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Lithium, total	7439-93-2	0.0032	0.0010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Magnesium, total	7439-95-4	2.69	0.0050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Manganese, total	7439-96-5	0.00374	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Molybdenum, total	7439-98-7	0.000200	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Potassium, total	7440-09-7	1.07	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297



Analytical Results

FC2300864-003

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLOT
Total Metals								
Rubidium, total	7440-17-7	0.00104	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Selenium, total	7782-49-2	0.000070	0.000050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Silicon, total	7440-21-3	2.39	0.10	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Sodium, total	7440-23-5	16.1	0.050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Strontium, total	7440-24-6	0.0654	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Sulfur, total	7704-34-9	0.78	0.50	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Uranium, total	7440-61-1	<0.000010	0.000010	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Vanadium, total	7440-62-2	0.00061	0.00050	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Zinc, total	7440-66-6	0.0431	0.0030	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420	12-Apr-2023	12-Apr-2023	894297
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0175	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Barium, dissolved	7440-39-3	0.0168	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Calcium, dissolved	7440-70-2	9.65	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Copper, dissolved	7440-50-8	0.00044	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Magnesium, dissolved	7439-95-4	2.70	0.0050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Manganese, dissolved	7439-96-5	0.00111	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Molybdenum, dissolved	7439-98-7	0.000199	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Potassium, dissolved	7440-09-7	1.06	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Rubidium, dissolved	7440-17-7	0.00091	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Silicon, dissolved	7440-21-3	2.34	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Sodium, dissolved	7440-23-5	16.2	0.050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Strontium, dissolved	7440-24-6	0.0649	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296



Analytical Results

FC2300864-003

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 11-Apr-2023 09:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sulfur, dissolved	7704-34-9	1.08	0.50	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421	12-Apr-2023	12-Apr-2023	894296
Dissolved metals filtration location	----	Laboratory	-	-	EP421	-	12-Apr-2023	894296
Aggregate Organics								
Naphthenic acids	----	<0.10	0.10	mg/L	E565-L	12-Apr-2023	13-Apr-2023	894307
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Styrene	100-42-5	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Toluene	108-88-3	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
BTEX, total	----	<1.0	1.0	µg/L	E611A	12-Apr-2023	12-Apr-2023	894234
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1	12-Apr-2023	12-Apr-2023	894233
F1-BTEX	----	<100	100	µg/L	EC580	-	13-Apr-2023	-
F2 (C10-C16)	----	<100	100	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
F3 (C16-C34)	----	<250	250	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
F4 (C34-C50)	----	<250	250	µg/L	E601	12-Apr-2023	12-Apr-2023	894214
Hydrocarbons, total (C6-C50)	----	<380	380	µg/L	EC581	-	13-Apr-2023	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	97.4	1.0	%	E601	12-Apr-2023	12-Apr-2023	894214
Dichlorotoluene, 3,4-	95-75-0	105	1.0	%	E581.F1	12-Apr-2023	12-Apr-2023	894233
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	96.6	1.0	%	E611A	12-Apr-2023	12-Apr-2023	894234
Diffluorobenzene, 1,4-	540-36-3	89.5	1.0	%	E611A	12-Apr-2023	12-Apr-2023	894234
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0000050	0.0000050	mg/L	E641A	12-Apr-2023	12-Apr-2023	894215
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	105	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215
Naphthalene-d8	1146-65-2	94.2	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215
Phenanthrene-d10	1517-22-2	110	0.1	%	E641A	12-Apr-2023	12-Apr-2023	894215

Please refer to the General Comments section for an explanation of any qualifiers detected.