ALS Canada Ltd.

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CERTIFICATE OF ANALYSIS

Work Order	: **FC2400357**	Page	: 1 of 9
Client	: **Regional Municipality of Wood Buffalo**	Laboratory	: ALS Environmental - Fort McMurray
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	: 14-Feb-2024 17:00
PO	: 4500055977	Date Analysis Commenced	: 15-Feb-2024
C-O-C number	: ----	Issue Date	: 17-Feb-2024 16:28
Sampler	: DM		
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 2		
No. of samples analysed	: 2		

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.

Signatories	*Position*	*Laboratory Department*
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
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Courtney Cox	Analsyt	Inorganics, Burnaby, British Columbia
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Daniel Nguyen	Lab Assistant	Metals, Edmonton, Alberta
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Remy Gatabazi	Lab Analyst	Organics, Edmonton, Alberta
Remy Gatabazi	Lab Analyst	Organics, 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).

Unit	*Description*
-	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)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID: Treated Water	Raw Water Chamber Tap	----	----	----
Client sampling date / time					14-Feb-2024 09:00	14-Feb-2024 09:30	----	----	----
					FC2400357-001	FC2400357-002	--------	--------	--------
					Result	Result	----	----	----
Physical Tests									
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.0	mg/L	63.4	40.0	----	----	----
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	1.0	mg/L	<1.0	<1.0	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<1.0	<1.0	----	----	----
Alkalinity, total (as CaCO3)	----	E290/EO	1.0	mg/L	52.0	32.8	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	147	81.1	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/EO	0.50	mg/L	34.3	33.0	----	----	----
pH	----	E108/EO	0.10	pH units	7.96	7.30	----	----	----
Salinity	----	EC100S/VA	1.0	psu	<1.0	<1.0	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	87.3	50.0	----	----	----
Anions and Nutrients									
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	14.7	3.68	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.024	0.061	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	0.082	0.078	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0300	mg/L	0.0820	0.0780	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	<0.010	----	----	----
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L	4.06	4.34	----	----	----
Total Sulfides									
Sulfide, total (as S)	18496-25-8	E395/VA	0.0015	mg/L	<0.0015	<0.0015	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/VA	0.0016	mg/L	<0.0016	<0.0016	----	----	----
Ion Balance									
Anion sum	----	EC101/EO	0.10	meq/L	1.54	0.86	----	----	----
Cation sum	----	EC101/EO	0.10	meq/L	1.50	0.82	----	----	----
Ion balance (APHA)	----	EC101/EO	0.01	%	-1.32	-2.38	----	----	----
Ion balance (cations/anions)	----	EC101/EO	0.010	%	97.4	95.3	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0170	0.0737	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00014	0.00027	----	----	----

Analytical Results

Sub-Matrix: **Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	14-Feb-2024 09:00	14-Feb-2024 09:30	----	----	----
						FC2400357-001	FC2400357-002	--------	--------	--------
						Result	Result	----	----	----
Total Metals										
Barium, total	7440-39-3	E420/EO	0.00010	mg/L		0.0172	0.0176	----	----	----
Beryllium, total	7440-41-7	E420/EO	0.000020	mg/L		<0.000020	<0.000020	----	----	----
Bismuth, total	7440-69-9	E420/EO	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Boron, total	7440-42-8	E420/EO	0.010	mg/L		0.013	0.013	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0000050	mg/L		<0.0000050	<0.0000050	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L		9.59	9.01	----	----	----
Cesium, total	7440-46-2	E420/EO	0.000010	mg/L		<0.000010	0.000012	----	----	----
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Copper, total	7440-50-8	E420/EO	0.00050	mg/L		0.00055	0.00110	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L		<0.010	0.076	----	----	----
Lead, total	7439-92-1	E420/EO	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L		0.0029	0.0030	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L		2.70	2.72	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L		0.00110	0.00227	----	----	----
Molybdenum, total	7439-98-7	E420/EO	0.000050	mg/L		0.000221	0.000237	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L		<0.050	<0.050	----	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L		0.992	1.00	----	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L		0.00087	0.00110	----	----	----
Selenium, total	7782-49-2	E420/EO	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Silicon, total	7440-21-3	E420/EO	0.10	mg/L		2.32	2.62	----	----	----
Silver, total	7440-22-4	E420/EO	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L		17.8	3.20	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L		0.0631	0.0621	----	----	----
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L		1.64	1.50	----	----	----
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L		<0.00020	<0.00020	----	----	----
Thallium, total	7440-28-0	E420/EO	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Tin, total	7440-31-5	E420/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----

Analytical Results

Sub-Matrix: **Water**
(Matrix: **Water**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	14-Feb-2024 09:00	14-Feb-2024 09:30	----	----	----
						FC2400357-001	FC2400357-002	--------	--------	--------
						Result	Result	----	----	----
Total Metals										
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L		<0.00030	0.00180	----	----	----
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Uranium, total	7440-61-1	E420/EO	0.000010	mg/L		<0.000010	0.000074	----	----	----
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L		<0.0030	<0.0030	----	----	----
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L		<0.00020	<0.00020	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L		0.0158	0.0044	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L		0.00012	0.00020	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L		0.0178	0.0176	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.000020	mg/L		<0.000020	<0.000020	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L		0.013	0.013	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0000050	mg/L		<0.0000050	<0.0000050	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L		9.18	8.68	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L		0.00045	0.00091	----	----	----
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L		<0.010	<0.010	----	----	----
Lead, dissolved	7439-92-1	E421/EO	0.000050	mg/L		<0.000050	<0.000050	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L		0.0031	0.0030	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L		2.76	2.75	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L		0.00070	0.00088	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L		0.000194	0.000215	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L		<0.050	<0.050	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L		1.05	1.01	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L		0.00091	0.00102	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	14-Feb-2024 09:00	14-Feb-2024 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		FC2400357-001	FC2400357-002	--------	--------	--------
						Result	Result	----	----	----
Dissolved Metals										
Selenium, dissolved	7782-49-2	E421/EO	0.000050	mg/L		<0.000050	0.000055	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L		2.19	2.35	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L		18.0	3.07	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L		0.0615	0.0614	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L		1.37	1.46	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L		<0.00020	<0.00020	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	0.000010	mg/L		<0.000010	<0.000010	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L		<0.00030	<0.00030	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L		<0.00010	<0.00010	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.000010	mg/L		<0.000010	0.000066	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L		<0.00050	<0.00050	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L		<0.0010	<0.0010	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00030	mg/L		<0.00030	<0.00030	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	-		Laboratory	Laboratory	----	----	----
Aggregate Organics										
Naphthenic acids	----	E565-L/EO	0.10	mg/L		<0.10	<0.10	----	----	----
Volatile Organic Compounds [BTEXS+MTBE]										
Benzene	71-43-2	E611A/EO	0.50	µg/L		<0.50	<0.50	----	----	----
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L		<0.50	<0.50	----	----	----
Toluene	108-88-3	E611A/EO	0.50	µg/L		<0.50	<0.50	----	----	----
Xylene, m+p-	179601-23-1	E611A/EO	0.50	µg/L		<0.50	<0.50	----	----	----
Xylene, o-	95-47-6	E611A/EO	0.50	µg/L		<0.50	<0.50	----	----	----
Xylenes, total	1330-20-7	E611A/EO	0.75	µg/L		<0.75	<0.75	----	----	----
BTEX, total	----	E611A/EO	1.2	µg/L		<1.2	<1.2	----	----	----
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/EO	100	µg/L		<100	<100	----	----	----
F1-BTEX	----	EC580/EO	100	µg/L		<100	<100	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	14-Feb-2024 09:00	14-Feb-2024 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		FC2400357-001	FC2400357-002	--------	--------	--------
						Result	Result	----	----	----
Hydrocarbons										
F2 (C10-C16)	----	E601/EO	100	µg/L		<100	<100	----	----	----
F3 (C16-C34)	----	E601/EO	250	µg/L		<250	<250	----	----	----
F4 (C34-C50)	----	E601/EO	250	µg/L		<250	<250	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	400	µg/L		<400	<400	----	----	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%		99.6	101	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%		105	109	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%		88.4	83.0	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%		93.7	93.4	----	----	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Acridine	260-94-6	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Anthracene	120-12-7	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L		<0.0050	<0.0050	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L		<0.015	<0.015	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Chrysene	218-01-9	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L		<0.0050	<0.0050	----	----	----
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Fluorene	86-73-7	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L		<0.015	<0.015	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Naphthalene	91-20-3	E641A/EO	0.050	µg/L		<0.050	<0.050	----	----	----

Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	Treated Water	Raw Water Chamber Tap	----	----	----
					Client sampling date / time	14-Feb-2024 09:00	14-Feb-2024 09:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit		FC2400357-001	FC2400357-002	--------	--------	--------
						Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons										
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L		<0.020	<0.020	----	----	----
Pyrene	129-00-0	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
Quinoline	91-22-5	E641A/EO	0.050	µg/L		<0.050	<0.050	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L		<0.010	<0.010	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L		<0.030	<0.030	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L		<0.060	<0.060	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L		<0.070	<0.070	----	----	----
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L		<0.065	<0.065	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/EO	0.1	%		92.0	91.1	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%		102	101	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%		115	115	----	----	----

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

Please refer to the Accreditation section for an explanation of analyte accreditations.

CERTIFICATE OF ANALYSIS

Work Order	: **FC2400357**	Page	: 1 of 10
Client	: **Regional Municipality of Wood Buffalo**	Laboratory	: ALS Environmental - Fort McMurray
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	: 14-Feb-2024 17:00
PO	: 4500055977	Date Analysis Commenced	: 15-Feb-2024
C-O-C number	: ----	Issue Date	: 17-Feb-2024 16:28
Sampler	: DM		
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 2		
No. of samples analysed	: 2		

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.

Signatories	*Position*	*Laboratory Department*
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Courtney Cox	Analsyt	Inorganics, Burnaby, British Columbia
Courtney Cox	Analsyt	Inorganics, Burnaby, British Columbia
Daniel Nguyen	Lab Assistant	Metals, Edmonton, Alberta
Daniel Nguyen	Lab Assistant	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Monica Ko	Lab Assistant	Inorganics, Burnaby, British Columbia
Monica Ko	Lab Assistant	Inorganics, Burnaby, British Columbia
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Remy Gatabazi	Lab Analyst	Organics, Edmonton, Alberta
Remy Gatabazi	Lab Analyst	Organics, 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).
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.

Unit	*Description*
-	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

FC2400357-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Treated Water
Client sampling date / time: 14-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	63.4	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Alkalinity, carbonate (as CO3)	3812-32-6	<1.0	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Alkalinity, hydroxide (as OH)	14280-30-9	<1.0	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Alkalinity, total (as CaCO3)	----	52.0	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Conductivity	----	147	1.0	µS/cm	E100/EO	15-Feb-2024	15-Feb-2024	1334738
Hardness (as CaCO3), dissolved	----	34.3	0.50	mg/L	EC100/EO	-	16-Feb-2024	-
pH	----	7.96	0.10	pH units	E108/EO	15-Feb-2024	15-Feb-2024	1334737
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	16-Feb-2024	-
Solids, total dissolved [TDS], calculated	----	87.3	1.0	mg/L	EC103/EO	-	16-Feb-2024	-
Anions and Nutrients								
Chloride	16887-00-6	14.7	0.50	mg/L	E235.Cl/EO	15-Feb-2024	15-Feb-2024	1334784
Fluoride	16984-48-8	0.024	0.020	mg/L	E235.F/EO	15-Feb-2024	15-Feb-2024	1334785
Nitrate (as N)	14797-55-8	0.082	0.020	mg/L	E235.NO3/EO	15-Feb-2024	15-Feb-2024	1334786
Nitrate + Nitrite (as N)	----	0.0820	0.03	mg/L	EC235.N+N/EO	-	16-Feb-2024	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	15-Feb-2024	15-Feb-2024	1334787
Sulfate (as SO4)	14808-79-8	4.06	0.30	mg/L	E235.SO4/EO	15-Feb-2024	15-Feb-2024	1334788
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/VA	-	16-Feb-2024	1336081
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/VA	-	16-Feb-2024	1336081
Ion Balance								
Anion sum	----	1.54	0.10	meq/L	EC101/EO	-	16-Feb-2024	-
Cation sum	----	1.50	0.10	meq/L	EC101/EO	-	16-Feb-2024	-
Ion balance (APHA)	----	-1.32	0.01	%	EC101/EO	-	16-Feb-2024	-
Ion balance (cations/anions)	----	97.4	0.010	%	EC101/EO	-	16-Feb-2024	-
Total Metals								
Aluminum, total	7429-90-5	0.0170	0.0030	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Arsenic, total	7440-38-2	0.00014	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Barium, total	7440-39-3	0.0172	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Boron, total	7440-42-8	0.013	0.010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Calcium, total	7440-70-2	9.59	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Copper, total	7440-50-8	0.00055	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Lithium, total	7439-93-2	0.0029	0.0010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Magnesium, total	7439-95-4	2.70	0.0050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Manganese, total	7439-96-5	0.00110	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Molybdenum, total	7439-98-7	0.000221	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321

Analytical Results

FC2400357-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Treated Water
Client sampling date / time: 14-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Potassium, total	7440-09-7	0.992	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Rubidium, total	7440-17-7	0.00087	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Silicon, total	7440-21-3	2.32	0.10	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Sodium, total	7440-23-5	17.8	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Strontium, total	7440-24-6	0.0631	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Sulfur, total	7704-34-9	1.64	0.50	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Uranium, total	7440-61-1	<0.000010	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0158	0.0010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Arsenic, dissolved	7440-38-2	0.00012	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Barium, dissolved	7440-39-3	0.0178	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Calcium, dissolved	7440-70-2	9.18	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Copper, dissolved	7440-50-8	0.00045	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Lithium, dissolved	7439-93-2	0.0031	0.0010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Magnesium, dissolved	7439-95-4	2.76	0.0050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Manganese, dissolved	7439-96-5	0.00070	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Molybdenum, dissolved	7439-98-7	0.000194	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Potassium, dissolved	7440-09-7	1.05	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Rubidium, dissolved	7440-17-7	0.00091	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Silicon, dissolved	7440-21-3	2.19	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612

Analytical Results

FC2400357-001

Sub-Matrix: **Water**
(Matrix: **Water**)

Client sample ID: Treated Water
Client sampling date / time: 14-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Sodium, dissolved	7440-23-5	18.0	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Strontium, dissolved	7440-24-6	0.0615	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Sulfur, dissolved	7704-34-9	1.37	0.50	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Dissolved metals filtration location	----	Laboratory	-	-	EP421/EO	-	15-Feb-2024	1334612
Aggregate Organics								
Naphthenic acids	----	<0.10	0.10	mg/L	E565-L/EO	16-Feb-2024	16-Feb-2024	1335247
Volatile Organic Compounds [BTEXS+MTBE]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Xylene, m+p-	179601-23-1	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Xylene, o-	95-47-6	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Xylenes, total	1330-20-7	<0.75	0.75	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
BTEX, total	----	<1.2	1.2	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	16-Feb-2024	16-Feb-2024	1335207
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	16-Feb-2024	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	16-Feb-2024	16-Feb-2024	1335539
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	16-Feb-2024	16-Feb-2024	1335539
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	16-Feb-2024	16-Feb-2024	1335539
Hydrocarbons, total (C6-C50)	n/a	<400	400	µg/L	EC581/EO	-	16-Feb-2024	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	99.6	1.0	%	E601/EO	16-Feb-2024	16-Feb-2024	1335539
Dichlorotoluene, 3,4-	95-75-0	105	1.0	%	E581.F1/EO	16-Feb-2024	16-Feb-2024	1335207
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	88.4	1.0	%	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Difluorobenzene, 1,4-	540-36-3	93.7	1.0	%	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540

Analytical Results

FC2400357-001

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: Treated Water

Client sampling date / time: 14-Feb-2024 09:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	92.0	0.1	%	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Naphthalene-d8	1146-65-2	102	0.1	%	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Phenanthrene-d10	1517-22-2	115	0.1	%	E641A/EO	16-Feb-2024	16-Feb-2024	1335540

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

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

FC2400357-002

Sub-Matrix:**Water** (Matrix: **Water**)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 14-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO3)	71-52-3	40.0	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Alkalinity, carbonate (as CO3)	3812-32-6	<1.0	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Alkalinity, hydroxide (as OH)	14280-30-9	<1.0	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Alkalinity, total (as CaCO3)	----	32.8	1.0	mg/L	E290/EO	15-Feb-2024	15-Feb-2024	1334739
Conductivity	----	81.1	1.0	µS/cm	E100/EO	15-Feb-2024	15-Feb-2024	1334738
Hardness (as CaCO3), dissolved	----	33.0	0.50	mg/L	EC100/EO	-	16-Feb-2024	-
pH	----	7.30	0.10	pH units	E108/EO	15-Feb-2024	15-Feb-2024	1334737
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	16-Feb-2024	-
Solids, total dissolved [TDS], calculated	----	50.0	1.0	mg/L	EC103/EO	-	16-Feb-2024	-

Analytical Results

FC2400357-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water Chamber Tap
Client sampling date / time: 14-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Anions and Nutrients								
Chloride	16887-00-6	3.68	0.50	mg/L	E235.Cl/EO	15-Feb-2024	15-Feb-2024	1334784
Fluoride	16984-48-8	0.061	0.020	mg/L	E235.F/EO	15-Feb-2024	15-Feb-2024	1334785
Nitrate (as N)	14797-55-8	0.078	0.020	mg/L	E235.NO3/EO	15-Feb-2024	15-Feb-2024	1334786
Nitrate + Nitrite (as N)	----	0.0780	0.03	mg/L	EC235.N+N/EO	-	16-Feb-2024	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	15-Feb-2024	15-Feb-2024	1334787
Sulfate (as SO4)	14808-79-8	4.34	0.30	mg/L	E235.SO4/EO	15-Feb-2024	15-Feb-2024	1334788
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/VA	-	16-Feb-2024	1336081
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/VA	-	16-Feb-2024	1336081
Ion Balance								
Anion sum	----	0.86	0.10	meq/L	EC101/EO	-	16-Feb-2024	-
Cation sum	----	0.82	0.10	meq/L	EC101/EO	-	16-Feb-2024	-
Ion balance (APHA)	----	-2.38	0.01	%	EC101/EO	-	16-Feb-2024	-
Ion balance (cations/anions)	----	95.3	0.010	%	EC101/EO	-	16-Feb-2024	-
Total Metals								
Aluminum, total	7429-90-5	0.0737	0.0030	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Arsenic, total	7440-38-2	0.00027	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Barium, total	7440-39-3	0.0176	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Boron, total	7440-42-8	0.013	0.010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Calcium, total	7440-70-2	9.01	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Cesium, total	7440-46-2	0.000012	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Copper, total	7440-50-8	0.00110	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Iron, total	7439-89-6	0.076	0.010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Lithium, total	7439-93-2	0.0030	0.0010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Magnesium, total	7439-95-4	2.72	0.0050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Manganese, total	7439-96-5	0.00227	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Molybdenum, total	7439-98-7	0.000237	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Potassium, total	7440-09-7	1.00	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Rubidium, total	7440-17-7	0.00110	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Silicon, total	7440-21-3	2.62	0.10	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Sodium, total	7440-23-5	3.20	0.050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Strontium, total	7440-24-6	0.0621	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Sulfur, total	7704-34-9	1.50	0.50	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321

Analytical Results

FC2400357-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water Chamber Tap
Client sampling date / time: 14-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Titanium, total	7440-32-6	0.00180	0.00030	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Uranium, total	7440-61-1	0.000074	0.000010	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	16-Feb-2024	16-Feb-2024	1335321
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0044	0.0010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Arsenic, dissolved	7440-38-2	0.00020	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Barium, dissolved	7440-39-3	0.0176	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Boron, dissolved	7440-42-8	0.013	0.010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Calcium, dissolved	7440-70-2	8.68	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Copper, dissolved	7440-50-8	0.00091	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Lithium, dissolved	7439-93-2	0.0030	0.0010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Magnesium, dissolved	7439-95-4	2.75	0.0050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Manganese, dissolved	7439-96-5	0.00088	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Molybdenum, dissolved	7439-98-7	0.000215	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Potassium, dissolved	7440-09-7	1.01	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Rubidium, dissolved	7440-17-7	0.00102	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Selenium, dissolved	7782-49-2	0.000055	0.000050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Silicon, dissolved	7440-21-3	2.35	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Sodium, dissolved	7440-23-5	3.07	0.050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Strontium, dissolved	7440-24-6	0.0614	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Sulfur, dissolved	7704-34-9	1.46	0.50	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612

Analytical Results

FC2400357-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water Chamber Tap
Client sampling date / time: 14-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Uranium, dissolved	7440-61-1	0.000066	0.000010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/EO	15-Feb-2024	15-Feb-2024	1334612
Dissolved metals filtration location	----	Laboratory	-	-	EP421/EO	-	15-Feb-2024	1334612
Aggregate Organics								
Naphthenic acids	----	<0.10	0.10	mg/L	E565-L/EO	16-Feb-2024	16-Feb-2024	1335247
Volatile Organic Compounds [BTEXS+MTBE]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Xylene, m+p-	179601-23-1	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Xylene, o-	95-47-6	<0.50	0.50	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Xylenes, total	1330-20-7	<0.75	0.75	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
BTEX, total	----	<1.2	1.2	µg/L	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	16-Feb-2024	16-Feb-2024	1335207
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	16-Feb-2024	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	16-Feb-2024	16-Feb-2024	1335539
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	16-Feb-2024	16-Feb-2024	1335539
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	16-Feb-2024	16-Feb-2024	1335539
Hydrocarbons, total (C6-C50)	n/a	<400	400	µg/L	EC581/EO	-	16-Feb-2024	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	101	1.0	%	E601/EO	16-Feb-2024	16-Feb-2024	1335539
Dichlorotoluene, 3,4-	95-75-0	109	1.0	%	E581.F1/EO	16-Feb-2024	16-Feb-2024	1335207
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	83.0	1.0	%	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Difluorobenzene, 1,4-	540-36-3	93.4	1.0	%	E611A/EO	16-Feb-2024	16-Feb-2024	1335208
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540

Analytical Results

FC2400357-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: Raw Water Chamber Tap
Client sampling date / time: 14-Feb-2024 09:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	91.1	0.1	%	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Naphthalene-d8	1146-65-2	101	0.1	%	E641A/EO	16-Feb-2024	16-Feb-2024	1335540
Phenanthrene-d10	1517-22-2	115	0.1	%	E641A/EO	16-Feb-2024	16-Feb-2024	1335540

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

Please refer to the Accreditation section for an explanation of analyte accreditations.