

CERTIFICATE OF ANALYSIS

Work Order	: FC2601962		
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Vishal Akolkar
Address	: 1 Silin Forest Road Fort McMurray Alberta Canada T9H 5A1	Address	: #4, 340 Macalpine Crescent Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	E-mail	: Vishal.Akolkar@alsglobal.com
Project	: Fort Chipewyan Table 1	Telephone	: +1 780 791 1524
PO	: 4500068005	Date Samples Received	: 12-Aug-2026 15:40
C-O-C number	: ----	Date Analysis Commenced	: 13-Aug-2026
Sampler	: JH/DF	Issue Date	: 17-Aug-2026 14:53
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 1		
No. of samples analysed	: 1		

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>
Alex Drake	Lab Analyst	Organics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Kevin Baxter	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nick Zhang	Lab Assistant	Inorganics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Tiffany McKay	Laboratory Analyst	Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	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
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

<: 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					R1-9150030-FORT CHIPEWYAN:	----	----	----	----
Client sampling date / time					12-Aug-2026 07:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/EO	-	-	lab	----	----	----	----
Physical Tests									
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/EO	1.2	mg/L	66.2	----	----	----	----
Alkalinity, carbonate (as CO ₃)	3812-32-6	E290/EO	1.0	mg/L	<0.6	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<0.3	----	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/EO	1.0	mg/L	54.3	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	217	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/EO	0.50	mg/L	63.1	----	----	----	----
pH	----	E108/EO	0.10	pH units	7.68	----	----	----	----
Salinity	----	EC100S/VA	1.0	psu	<1.0	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	121	----	----	----	----
Anions and Nutrients									
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	29.3	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	<0.020	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	<0.020	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0032	mg/L	<0.022	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO4/EO	0.30	mg/L	7.59	----	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/EO	0.50	mg/L	3.62	----	----	----	----
Carbon, total organic [TOC]	----	E355-L/EO	0.50	mg/L	4.16	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Total Sulfides									
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	----	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	----	----	----	----
Metals									
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	1.02	----	----	----	----
Ion Balance									
Ion balance (cations/anions)	----	EC101/EO	0.010	%	102	----	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0080	----	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00054	----	----	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0334	----	----	----	----
Beryllium, total	7440-41-7	E420/EO	0.020	µg/L	<0.020	----	----	----	----
Bismuth, total	7440-69-9	E420/EO	0.050	µg/L	<0.050	----	----	----	----
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.028	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	<0.0050	----	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	15.7	----	----	----	----
Cesium, total	7440-46-2	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.00235	----	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
Lead, total	7439-92-1	E420/EO	0.050	µg/L	<0.050	----	----	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0051	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	4.36	----	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00427	----	----	----	----
Molybdenum, total	7439-98-7	E420/EO	0.050	µg/L	0.309	----	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.00092	----	----	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	1.28	----	----	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00121	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	<0.050	----	----	----	----
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	1.94	----	----	----	----
Silver, total	7440-22-4	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	18.7	----	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.0956	----	----	----	----
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	3.15	----	----	----	----
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L	<0.00020	----	----	----	----
Thallium, total	7440-28-0	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----
Tin, total	7440-31-5	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L	<0.00030	----	----	----	----
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	0.010	----	----	----	----
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L	<0.00050	----	----	----	----
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	0.0041	----	----	----	----
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L	<0.00020	----	----	----	----
Dissolved Metals									
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0065	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00054	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0324	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.020	µg/L	<0.020	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	0.050	µg/L	<0.050	----	----	----	----
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.031	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	<0.0050	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	17.8	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00229	----	----	----	----
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	<0.010	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	0.050	µg/L	<0.050	----	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0051	----	----	----	----



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 (Matrix: Water)

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Client sampling date / time					12-Aug-2026 07:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	4.52	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00410	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.050	µg/L	0.322	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	0.00081	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.26	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00116	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	0.055	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	2.01	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	18.7	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0940	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	3.30	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	<0.00030	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-FORT CHIPEWYAN:	----	----	----	----
Client sampling date / time					12-Aug-2026 07:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	0.0039	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	-	Field	----	----	----	----
Aggregate Organics									
Naphthenic acids	----	E565/EO	1.0	mg/L	<1.0	----	----	----	----
Volatile Organic Compounds [Fuels]									
Benzene	71-43-2	E611A/EO	0.50	µg/L	<0.50	----	----	----	----
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L	<0.50	----	----	----	----
Styrene	100-42-5	E611A/EO	0.50	µg/L	<0.50	----	----	----	----
Toluene	108-88-3	E611A/EO	0.50	µg/L	<0.50	----	----	----	----
Xylene, m+p-	179601-23-1	E611A/EO	0.40	µg/L	<0.40	----	----	----	----
Xylene, o-	95-47-6	E611A/EO	0.30	µg/L	<0.30	----	----	----	----
Xylenes, total	1330-20-7	E611A/EO	0.50	µg/L	<0.50	----	----	----	----
BTEX, total	----	E611A/EO	1.0	µg/L	<1.0	----	----	----	----
Hydrocarbons									
F1 (C6-C10)	----	E581.F1/EO	100	µg/L	<100	----	----	----	----
F1-BTEX	----	EC580/EO	25	µg/L	<26	----	----	----	----
F2 (C10-C16)	----	E601/EO	100	µg/L	<100	----	----	----	----
F3 (C16-C34)	----	E601/EO	250	µg/L	<250	----	----	----	----
F4 (C34-C50)	----	E601/EO	250	µg/L	<250	----	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380	----	----	----	----



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					Result	----	----	----	----
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	101	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	118	----	----	----	----
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	86.2	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	103	----	----	----	----
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Acridine	260-94-6	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Anthracene	120-12-7	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L	<0.015	----	----	----	----
Benzo(e)pyrene	192-97-2	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Chrysene	218-01-9	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Fluorene	86-73-7	E641A/EO	0.010	µg/L	<0.010	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601962-001	----	----	----	----
					Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons									
Indeno(1,2,3-cd)pyrene	193-39-5	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Methylnaphthalene, 1+2-	----	E641A/EO	0.015	µg/L	<0.015	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Naphthalene	91-20-3	E641A/EO	0.050	µg/L	<0.050	----	----	----	----
Perylene	198-55-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Phenanthrene	85-01-8	E641A/EO	0.020	µg/L	<0.020	----	----	----	----
Pyrene	129-00-0	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Quinoline	91-22-5	E641A/EO	0.050	µg/L	<0.050	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	0.010	µg/L	<0.010	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	125	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	121	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	102	----	----	----	----
Disinfectant By-Products									
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.049	----	----	----	----
Chlorite	14998-27-7	E409.CLO2/WT	0.010	mg/L	<0.010	----	----	----	----

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2601962	Page	: 1 of 6
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Vishal Akolkar
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 Table 1	Date Samples Received	: 12-Aug-2026 15:40
PO	: 4500068005	Date Analysis	: 13-Aug-2026
		Commenced	
		Issue Date	: 17-Aug-2026 14:53
C-O-C number	: ----		
Sampler	: JH/DF		
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 1		
No. of samples analysed	: 1		

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>
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Organics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Kevin Baxter	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Nick Zhang	Lab Assistant	Inorganics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Tiffany McKay	Laboratory Analyst	Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	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.

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
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

FC2601962-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-FORT CHIPEWYAN:

Client sampling date / time: 12-Aug-2026 07:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Sample Preparation								
Dissolved carbon filtration location	----	lab	-	-	EP358/EO	-	13-Aug-2026	2766170
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	66.2	1.2	mg/L	E290/EO	13-Aug-2026	13-Aug-2026	2765899
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	13-Aug-2026	13-Aug-2026	2765899
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	13-Aug-2026	13-Aug-2026	2765899
Alkalinity, total (as CaCO ₃)	----	54.3	1.0	mg/L	E290/EO	13-Aug-2026	13-Aug-2026	2765899
Conductivity	----	217	1.0	µS/cm	E100/EO	13-Aug-2026	13-Aug-2026	2765898
Hardness (as CaCO ₃), dissolved	----	63.1	0.50	mg/L	EC100/EO	-	14-Aug-2026	-
pH	----	7.68	0.10	pH units	E108/EO	13-Aug-2026	13-Aug-2026	2765897
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	15-Aug-2026	-
Solids, total dissolved [TDS], calculated	----	121	1.0	mg/L	EC103/EO	-	13-Aug-2026	-
Anions and Nutrients								
Chloride	16887-00-6	29.3	0.50	mg/L	E235.Cl/EO	13-Aug-2026	13-Aug-2026	2765837
Fluoride	16984-48-8	<0.020	0.020	mg/L	E235.F/EO	13-Aug-2026	13-Aug-2026	2765838
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	13-Aug-2026	13-Aug-2026	2765839
Nitrate + Nitrite (as N)	----	<0.022	0.022	mg/L	EC235.N+N/EO	-	13-Aug-2026	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	13-Aug-2026	13-Aug-2026	2765840
Sulfate (as SO ₄)	14808-79-8	7.59	0.30	mg/L	E235.SO4/EO	13-Aug-2026	13-Aug-2026	2765841
Organic / Inorganic Carbon								
Carbon, dissolved organic [DOC]	----	3.62	0.50	mg/L	E358-L/EO	13-Aug-2026	13-Aug-2026	2766170
Carbon, total organic [TOC]	----	4.16	0.50	mg/L	E355-L/EO	13-Aug-2026	13-Aug-2026	2766945
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	13-Aug-2026	2767399
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	13-Aug-2026	2767399
Metals								
Sodium adsorption ratio [SAR]	----	1.02	0.10	-	EC102A/EO	-	14-Aug-2026	-
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	13-Aug-2026	-
Total Metals								
Aluminum, total	7429-90-5	0.0080	0.0030	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Arsenic, total	7440-38-2	0.00054	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Barium, total	7440-39-3	0.0334	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Beryllium, total	7440-41-7	<0.020	0.020	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Bismuth, total	7440-69-9	<0.050	0.050	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Boron, total	7440-42-8	0.028	0.010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Cadmium, total	7440-43-9	<0.0050	0.0050	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Calcium, total	7440-70-2	15.7	0.050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Cesium, total	7440-46-2	<0.010	0.010	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Copper, total	7440-50-8	0.00235	0.00050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Lead, total	7439-92-1	<0.050	0.050	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Lithium, total	7439-93-2	0.0051	0.0010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637



Analytical Results

FC2601962-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-FORT CHIPEWYAN:

Client sampling date / time: 12-Aug-2026 07:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Magnesium, total	7439-95-4	4.36	0.0050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Manganese, total	7439-96-5	0.00427	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Molybdenum, total	7439-98-7	0.309	0.050	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Nickel, total	7440-02-0	0.00092	0.00050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Potassium, total	7440-09-7	1.28	0.050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Rubidium, total	7440-17-7	0.00121	0.00020	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Selenium, total	7782-49-2	<0.050	0.050	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Silicon, total	7440-21-3	1.94	0.10	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Sodium, total	7440-23-5	18.7	0.050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Strontium, total	7440-24-6	0.0956	0.00020	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Sulfur, total	7704-34-9	3.15	0.50	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Thallium, total	7440-28-0	<0.010	0.010	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Uranium, total	7440-61-1	0.010	0.010	µg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Zinc, total	7440-66-6	0.0041	0.0030	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	13-Aug-2026	13-Aug-2026	2765637
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0065	0.0010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Arsenic, dissolved	7440-38-2	0.00054	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Barium, dissolved	7440-39-3	0.0324	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Boron, dissolved	7440-42-8	0.031	0.010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Calcium, dissolved	7440-70-2	17.8	0.050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Copper, dissolved	7440-50-8	0.00229	0.00020	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Lithium, dissolved	7439-93-2	0.0051	0.0010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Magnesium, dissolved	7439-95-4	4.52	0.0050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Manganese, dissolved	7439-96-5	0.00410	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Molybdenum, dissolved	7439-98-7	0.322	0.050	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Nickel, dissolved	7440-02-0	0.00081	0.00050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626



Analytical Results

FC2601962-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-FORT CHIPEWYAN:

Client sampling date / time: 12-Aug-2026 07:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.26	0.050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Rubidium, dissolved	7440-17-7	0.00116	0.00020	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Selenium, dissolved	7782-49-2	0.055	0.050	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Silicon, dissolved	7440-21-3	2.01	0.050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Sodium, dissolved	7440-23-5	18.7	0.050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Strontium, dissolved	7440-24-6	0.0940	0.00020	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Sulfur, dissolved	7704-34-9	3.30	0.50	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Uranium, dissolved	7440-61-1	<0.010	0.010	µg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Zinc, dissolved	7440-66-6	0.0039	0.0010	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	13-Aug-2026	13-Aug-2026	2765626
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	13-Aug-2026	2765626
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	14-Aug-2026	14-Aug-2026	2767348
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	13-Aug-2026	14-Aug-2026	2766209
F1-BTEX	----	<26	26	µg/L	EC580/EO	-	14-Aug-2026	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	13-Aug-2026	13-Aug-2026	2765894
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	13-Aug-2026	13-Aug-2026	2765894
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	13-Aug-2026	13-Aug-2026	2765894
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	14-Aug-2026	-
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	101	1.0	%	E601/EO	13-Aug-2026	13-Aug-2026	2765894
Dichlorotoluene, 3,4-	95-75-0	118	1.0	%	E581.F1/EO	13-Aug-2026	14-Aug-2026	2766209
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	86.2	1.0	%	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Difluorobenzene, 1,4-	540-36-3	103	1.0	%	E611A/EO	13-Aug-2026	14-Aug-2026	2766208
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895



Analytical Results

FC2601962-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-FORT CHIPEWYAN:

Client sampling date / time: 12-Aug-2026 07:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Indeno(1,2,3-cd)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	125	0.1	%	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Naphthalene-d8	1146-65-2	121	0.1	%	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Phenanthrene-d10	1517-22-2	102	0.1	%	E641A/EO	13-Aug-2026	13-Aug-2026	2765895
Disinfectant By-Products								
Chlorate	14866-68-3	0.049	0.010	mg/L	E409.CLO3/WT	17-Aug-2026	17-Aug-2026	2772845
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	17-Aug-2026	17-Aug-2026	2772846

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