

CERTIFICATE OF ANALYSIS

Work Order	: FC2601866	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Vishal Akolkar
Contact	: Water Treatment Plant	Address	: #4, 340 Macalpine Crescent
Address	: 1 Silin Forest Road Fort McMurray Alberta Canada T9H 5A1		: 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	: 06-Aug-2026 08:00
C-O-C number	: ----	Date Analysis Commenced	: 06-Aug-2026
Sampler	: JH	Issue Date	: 10-Aug-2026 15:40
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
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Daniel Nguyen	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Dat Ha	Analyst- General	Inorganics, Burnaby, British Columbia
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Kevin Baxter	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Nick Zhang	Lab Assistant	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.

Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
RRV	Reported result verified by repeat analysis.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					ED-9150030-FORT CHIPEWYAN ED-Entering Distribution System	----	----	----	----
Client sampling date / time					05-Aug-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601866-001	----	----	----	----
					Result	----	----	----	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/CG	-	-	field	----	----	----	----
Physical Tests									
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/EO	1.2	mg/L	96.4	----	----	----	----
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	79.0	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	259	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/EO	0.50	mg/L	73.1	----	----	----	----
pH	----	E108/EO	0.10	pH units	8.15	----	----	----	----
Salinity	----	EC100S/VA	1.0	psu	<1.0	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	151	----	----	----	----
Anions and Nutrients									
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	29.6 ^{DLDS}	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	<0.100 ^{DLDS}	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	<0.100 ^{DLDS}	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0032	mg/L	<0.11	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.050 ^{DLDS}	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO4/EO	0.30	mg/L	10.3 ^{DLDS}	----	----	----	----



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					Result	----	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/CG	0.50	mg/L	5.20	----	----	----	----
Carbon, total organic [TOC]	----	E355-L/CG	0.50	mg/L	4.92	----	----	----	----
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	-	1.33	----	----	----	----
Ion Balance									
Ion balance (cations/anions)	----	EC101/EO	0.010	%	100	----	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0440	----	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00068	----	----	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0299	----	----	----	----
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	0.024	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	<0.0050	----	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	20.0	----	----	----	----
Cesium, total	7440-46-2	E420/EO	0.010	µg/L	<0.010	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601866-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
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	0.00104	----	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	----	----	----	----
Lead, total	7439-92-1	E420/EO	0.050	µg/L	<0.050	----	----	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0050	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	5.39	----	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00801	----	----	----	----
Molybdenum, total	7439-98-7	E420/EO	0.050	µg/L	0.495	----	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.00090	----	----	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	1.29	----	----	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00122	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	0.056	----	----	----	----
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	1.83	----	----	----	----
Silver, total	7440-22-4	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	26.1	----	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.121	----	----	----	----
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	3.77	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601866-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
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	----	----	----	----
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	<0.0030	----	----	----	----
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	0.0449	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00067	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0313	----	----	----	----
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	0.023	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	<0.0050	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601866-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	20.0	----	----	----	----
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	0.00103	----	----	----	----
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	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	5.62	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00733	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.050	µg/L	0.485	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	0.00087	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.36	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00134	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	0.057	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	1.87	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	26.2	----	----	----	----



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Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601866-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.115	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	3.93 ^{RRV}	----	----	----	----
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	----	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	----	----	----	----
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	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A/EO	0.50	µg/L	<0.50	----	----	----	----



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					Result	----	----	----	----
Volatile Organic Compounds [Fuels]									
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	----	----	----	----
TEH (C10-C50)	n/a	E601/EO	400	µg/L	<400	----	----	----	----
TEH (C16-C50)	----	E601/EO	400	µg/L	<400	----	----	----	----
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	96.3	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	96.8	----	----	----	----



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					Result	----	----	----	----
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	81.0	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	98.2	----	----	----	----
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	----	----	----	----
Indeno(1,2,3-cd)pyrene	193-39-5	E641A/EO	0.010	µg/L	<0.010	----	----	----	----



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					Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons									
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	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L	<0.030	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L	<0.060	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L	<0.070	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	----	----	----	----
PAHs, total (P2MMP)	n/a	E641A/EO	0.040	µg/L	<0.040	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	83.9	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	88.4	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	83.9	----	----	----	----



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	ED-9150030-FORT CHIPEWYAN ED-Entering Distribution System	----	----	----	----
					Client sampling date / time	05-Aug-2026 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601866-001	----	----	----	----	
					Result	----	----	----	----	
Disinfectant By-Products										
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.078	----	----	----	----	
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	: FC2601866	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	: 06-Aug-2026 08:00
PO	: 4500068005	Date Analysis	: 06-Aug-2026
		Commenced	
		Issue Date	: 10-Aug-2026 15:39
C-O-C number	: ----		
Sampler	: JH		
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
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Daniel Nguyen	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Dat Ha	Analyst- General	Inorganics, Burnaby, British Columbia
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Kevin Baxter	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Nick Zhang	Lab Assistant	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.

Unit	Description
-	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.

Qualifiers

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
RRV	Reported result verified by repeat analysis.



Analytical Results

FC2601866-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED-Entering Distribution System

Client sampling date / time: 05-Aug-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Sample Preparation								
Dissolved carbon filtration location	----	field	-	-	EP358/CG	-	07-Aug-2026	2754545
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	96.4	1.2	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Alkalinity, total (as CaCO ₃)	----	79.0	1.0	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Conductivity	----	259	1.0	µS/cm	E100/EO	06-Aug-2026	06-Aug-2026	2752581
Hardness (as CaCO ₃), dissolved	----	73.1	0.50	mg/L	EC100/EO	-	07-Aug-2026	-
pH	----	8.15	0.10	pH units	E108/EO	06-Aug-2026	06-Aug-2026	2752580
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	07-Aug-2026	-
Solids, total dissolved [TDS], calculated	----	151	1.0	mg/L	EC103/EO	-	07-Aug-2026	-
Anions and Nutrients								
Chloride	16887-00-6	29.6 ^{DLDS}	2.50	mg/L	E235.Cl/EO	06-Aug-2026	06-Aug-2026	2752464
Fluoride	16984-48-8	<0.100 ^{DLDS}	0.100	mg/L	E235.F/EO	06-Aug-2026	06-Aug-2026	2752460
Nitrate (as N)	14797-55-8	<0.100 ^{DLDS}	0.100	mg/L	E235.NO ₃ /EO	06-Aug-2026	06-Aug-2026	2752461
Nitrate + Nitrite (as N)	----	<0.11	0.11	mg/L	EC235.N+N/EO	-	07-Aug-2026	-
Nitrite (as N)	14797-65-0	<0.050 ^{DLDS}	0.050	mg/L	E235.NO ₂ /EO	06-Aug-2026	06-Aug-2026	2752462
Sulfate (as SO ₄)	14808-79-8	10.3 ^{DLDS}	1.50	mg/L	E235.SO ₄ /EO	06-Aug-2026	06-Aug-2026	2752463
Organic / Inorganic Carbon								
Carbon, dissolved organic [DOC]	----	5.20	0.50	mg/L	E358-L/CG	07-Aug-2026	07-Aug-2026	2754545
Carbon, total organic [TOC]	----	4.92	0.50	mg/L	E355-L/CG	07-Aug-2026	07-Aug-2026	2754544
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	07-Aug-2026	2753712
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	07-Aug-2026	2753712
Metals								
Sodium adsorption ratio [SAR]	----	1.33	0.10	-	EC102A/EO	-	07-Aug-2026	-
Ion Balance								
Ion balance (cations/anions)	----	100	0.010	%	EC101/EO	-	07-Aug-2026	-
Total Metals								
Aluminum, total	7429-90-5	0.0440	0.0030	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Arsenic, total	7440-38-2	0.00068	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Barium, total	7440-39-3	0.0299	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Beryllium, total	7440-41-7	<0.020	0.020	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Bismuth, total	7440-69-9	<0.050	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Boron, total	7440-42-8	0.024	0.010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Cadmium, total	7440-43-9	<0.0050	0.0050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Calcium, total	7440-70-2	20.0	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Cesium, total	7440-46-2	<0.010	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Copper, total	7440-50-8	0.00104	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Lead, total	7439-92-1	<0.050	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Lithium, total	7439-93-2	0.0050	0.0010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269



Analytical Results

FC2601866-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED-Entering Distribution System

Client sampling date / time: 05-Aug-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Magnesium, total	7439-95-4	5.39	0.0050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Manganese, total	7439-96-5	0.00801	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Molybdenum, total	7439-98-7	0.495	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Nickel, total	7440-02-0	0.00090	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Potassium, total	7440-09-7	1.29	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Rubidium, total	7440-17-7	0.00122	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Selenium, total	7782-49-2	0.056	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Silicon, total	7440-21-3	1.83	0.10	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Sodium, total	7440-23-5	26.1	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Strontium, total	7440-24-6	0.121	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Sulfur, total	7704-34-9	3.77	0.50	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Thallium, total	7440-28-0	<0.010	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Uranium, total	7440-61-1	<0.010	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0449	0.0010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Arsenic, dissolved	7440-38-2	0.00067	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Barium, dissolved	7440-39-3	0.0313	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Boron, dissolved	7440-42-8	0.023	0.010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Calcium, dissolved	7440-70-2	20.0	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Copper, dissolved	7440-50-8	0.00103	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Lithium, dissolved	7439-93-2	0.0051	0.0010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Magnesium, dissolved	7439-95-4	5.62	0.0050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Manganese, dissolved	7439-96-5	0.00733	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Molybdenum, dissolved	7439-98-7	0.485	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Nickel, dissolved	7440-02-0	0.00087	0.00050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298



Analytical Results

FC2601866-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED-Entering Distribution System

Client sampling date / time: 05-Aug-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.36	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Rubidium, dissolved	7440-17-7	0.00134	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Selenium, dissolved	7782-49-2	0.057	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Silicon, dissolved	7440-21-3	1.87	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Sodium, dissolved	7440-23-5	26.2	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Strontium, dissolved	7440-24-6	0.115	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Sulfur, dissolved	7704-34-9	3.93	0.50	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Uranium, dissolved	7440-61-1	<0.010	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	07-Aug-2026	2754298
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	07-Aug-2026	07-Aug-2026	2754275
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	07-Aug-2026	07-Aug-2026	2754337
F1-BTEX	----	<26	26	µg/L	EC580/EO	-	07-Aug-2026	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	07-Aug-2026	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	96.3	1.0	%	E601/EO	07-Aug-2026	07-Aug-2026	2754317
Dichlorotoluene, 3,4-	95-75-0	96.8	1.0	%	E581.F1/EO	07-Aug-2026	07-Aug-2026	2754337
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	81.0	1.0	%	E611A/EO	07-Aug-2026	07-Aug-2026	2754338



Analytical Results

FC2601866-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: ED-9150030-FORT CHIPEWYAN - ED-Entering Distribution System

Client sampling date / time: 05-Aug-2026 07:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
Difluorobenzene, 1,4-	540-36-3	98.2	1.0	%	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Indeno(1,2,3-cd)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.030	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.060	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, total (CCME sewer 18)	n/a	<0.070	0.070	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, total (P2MMP)	n/a	<0.040	0.040	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	83.9	0.1	%	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Naphthalene-d8	1146-65-2	88.4	0.1	%	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Phenanthrene-d10	1517-22-2	83.9	0.1	%	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Disinfectant By-Products								
Chlorate	14866-68-3	0.078	0.010	mg/L	E409.CLO3/WT	07-Aug-2026	07-Aug-2026	2754273
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	07-Aug-2026	07-Aug-2026	2754274

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2601867	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Vishal Akolkar
Contact	: Water Treatment Plant	Address	: #4, 340 Macalpine Crescent
Address	: 1 Silin Forest Road Fort McMurray Alberta Canada T9H 5A1		: 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	: 06-Aug-2026 08:00
C-O-C number	: ----	Date Analysis Commenced	: 06-Aug-2026
Sampler	: JH	Issue Date	: 10-Aug-2026 15:40
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
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Daniel Nguyen	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Dat Ha	Analyst- General	Inorganics, Burnaby, British Columbia
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Kevin Baxter	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Nick Zhang	Lab Assistant	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					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Sample Preparation									
Dissolved carbon filtration location	----	EP358/CG	-	-	field	----	----	----	----
Physical Tests									
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/EO	1.2	mg/L	78.1	----	----	----	----
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	64.0	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	153	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/EO	0.50	mg/L	66.8	----	----	----	----
pH	----	E108/EO	0.10	pH units	7.91	----	----	----	----
Salinity	----	EC100S/VA	1.0	psu	<1.0	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	100	----	----	----	----
Anions and Nutrients									
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	4.02	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.093	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO ₃ /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.NO ₂ /EO	0.010	mg/L	<0.010	----	----	----	----
Sulfate (as SO ₄)	14808-79-8	E235.SO ₄ /EO	0.30	mg/L	9.77	----	----	----	----
Organic / Inorganic Carbon									
Carbon, dissolved organic [DOC]	----	E358-L/CG	0.50	mg/L	10.6	----	----	----	----
Carbon, total organic [TOC]	----	E355-L/CG	0.50	mg/L	10.9	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Total Sulfides									
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	0.0022	----	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	0.0023	----	----	----	----
Metals									
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	0.32	----	----	----	----
Ion Balance									
Ion balance (cations/anions)	----	EC101/EO	0.010	%	103	----	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.104	----	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	0.00011	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00087	----	----	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0359	----	----	----	----
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	0.024	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	0.0052	----	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	19.2	----	----	----	----
Cesium, total	7440-46-2	E420/EO	0.010	µg/L	0.016	----	----	----	----
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	0.00295	----	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	0.269	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
Lead, total	7439-92-1	E420/EO	0.050	µg/L	0.100	----	----	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0051	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	5.28	----	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.0287	----	----	----	----
Molybdenum, total	7439-98-7	E420/EO	0.050	µg/L	0.542	----	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.00141	----	----	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	1.26	----	----	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00140	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	0.127	----	----	----	----
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	2.34	----	----	----	----
Silver, total	7440-22-4	E420/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	5.99	----	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.121	----	----	----	----
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	3.91	----	----	----	----
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	0.00479	----	----	----	----
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L	<0.00010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Total Metals									
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	0.174	----	----	----	----
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L	0.00053	----	----	----	----
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	<0.0030	----	----	----	----
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L	0.00032	----	----	----	----
Dissolved Metals									
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.110	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00086	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0363	----	----	----	----
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	0.023	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	0.0062	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	18.0	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.010	µg/L	0.014	----	----	----	----
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	0.00291	----	----	----	----
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	0.246	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	0.050	µg/L	0.100	----	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0049	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	5.30	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.0285	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.050	µg/L	0.520	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	0.00138	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.28	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00132	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	0.118	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	2.41	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	5.97	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.112	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	4.00	----	----	----	----
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	0.00547	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.010	µg/L	0.166	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Dissolved Metals									
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	0.00037	----	----	----	----
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	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	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	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap				
Client sampling date / time					05-Aug-2026 07:45				
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001				
					Result				
Hydrocarbons									
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380				
TEH (C10-C50)	n/a	E601/EO	400	µg/L	<400				
TEH (C16-C50)	---	E601/EO	400	µg/L	<400				
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	99.0				
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	81.5				
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	77.5				
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	97.8				
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				



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					Raw Water Chamber Tap	----	----	----	----
Client sampling date / time					05-Aug-2026 07:45	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001	----	----	----	----
					Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons									
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	----	----	----	----
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	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	0.030	µg/L	<0.030	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	0.060	µg/L	<0.060	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	0.070	µg/L	<0.070	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/EO	0.065	µg/L	<0.065	----	----	----	----
PAHs, total (P2MMP)	n/a	E641A/EO	0.040	µg/L	<0.040	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates									
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	94.9	----	----	----	----



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

					Client sample ID	Raw Water Chamber Tap				
					Client sampling date / time	05-Aug-2026 07:45				
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2601867-001					
					Result					
Polycyclic Aromatic Hydrocarbons Surrogates										
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	97.4					
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	93.2					
Disinfectant By-Products										
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	<0.010					
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	: FC2601867	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	Address	: #4, 340 Macalpine Crescent
	Fort McMurray AB Canada T9H 5A1		Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	Telephone	: +1 780 791 1524
Project	: Fort Chipewyan Table 1	Date Samples Received	: 06-Aug-2026 08:00
PO	: 4500068005	Date Analysis	: 06-Aug-2026
		Commenced	
		Issue Date	: 10-Aug-2026 15:40
C-O-C number	: ----		
Sampler	: JH		
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
Anthony Calero	Supervisor - Inorganic	Inorganics, Calgary, Alberta
Daniel Nguyen	Laboratory Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Dat Ha	Analyst- General	Inorganics, Burnaby, British Columbia
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Kevin Baxter	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Nick Zhang	Lab Assistant	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.

Unit	Description
-	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

FC2601867-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 05-Aug-2026 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Sample Preparation								
Dissolved carbon filtration location	----	field	-	-	EP358/CG	-	07-Aug-2026	2754545
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	78.1	1.2	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Alkalinity, total (as CaCO ₃)	----	64.0	1.0	mg/L	E290/EO	06-Aug-2026	06-Aug-2026	2752582
Conductivity	----	153	1.0	µS/cm	E100/EO	06-Aug-2026	06-Aug-2026	2752581
Hardness (as CaCO ₃), dissolved	----	66.8	0.50	mg/L	EC100/EO	-	07-Aug-2026	-
pH	----	7.91	0.10	pH units	E108/EO	06-Aug-2026	06-Aug-2026	2752580
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	07-Aug-2026	-
Solids, total dissolved [TDS], calculated	----	100	1.0	mg/L	EC103/EO	-	07-Aug-2026	-
Anions and Nutrients								
Chloride	16887-00-6	4.02	0.50	mg/L	E235.Cl/EO	06-Aug-2026	06-Aug-2026	2752464
Fluoride	16984-48-8	0.093	0.020	mg/L	E235.F/EO	06-Aug-2026	06-Aug-2026	2752460
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	06-Aug-2026	06-Aug-2026	2752461
Nitrate + Nitrite (as N)	----	<0.022	0.022	mg/L	EC235.N+N/EO	-	07-Aug-2026	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	06-Aug-2026	06-Aug-2026	2752462
Sulfate (as SO ₄)	14808-79-8	9.77	0.30	mg/L	E235.SO4/EO	06-Aug-2026	06-Aug-2026	2752463
Organic / Inorganic Carbon								
Carbon, dissolved organic [DOC]	----	10.6	0.50	mg/L	E358-L/CG	07-Aug-2026	07-Aug-2026	2754545
Carbon, total organic [TOC]	----	10.9	0.50	mg/L	E355-L/CG	07-Aug-2026	07-Aug-2026	2754544
Total Sulfides								
Sulfide, total (as S)	18496-25-8	0.0022	0.0015	mg/L	E395/CG	-	07-Aug-2026	2753712
Sulfide, total (as H ₂ S)	7783-06-4	0.0023	0.0016	mg/L	E395/CG	-	07-Aug-2026	2753712
Metals								
Sodium adsorption ratio [SAR]	----	0.32	0.10	-	EC102A/EO	-	07-Aug-2026	-
Ion Balance								
Ion balance (cations/anions)	----	103	0.010	%	EC101/EO	-	07-Aug-2026	-
Total Metals								
Aluminum, total	7429-90-5	0.104	0.0030	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Antimony, total	7440-36-0	0.00011	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Arsenic, total	7440-38-2	0.00087	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Barium, total	7440-39-3	0.0359	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Beryllium, total	7440-41-7	<0.020	0.020	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Bismuth, total	7440-69-9	<0.050	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Boron, total	7440-42-8	0.024	0.010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Cadmium, total	7440-43-9	0.0052	0.0050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Calcium, total	7440-70-2	19.2	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Cesium, total	7440-46-2	0.016	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Copper, total	7440-50-8	0.00295	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Iron, total	7439-89-6	0.269	0.010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Lead, total	7439-92-1	0.100	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Lithium, total	7439-93-2	0.0051	0.0010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269



Analytical Results

FC2601867-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 05-Aug-2026 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Magnesium, total	7439-95-4	5.28	0.0050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Manganese, total	7439-96-5	0.0287	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Molybdenum, total	7439-98-7	0.542	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Nickel, total	7440-02-0	0.00141	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Potassium, total	7440-09-7	1.26	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Rubidium, total	7440-17-7	0.00140	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Selenium, total	7782-49-2	0.127	0.050	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Silicon, total	7440-21-3	2.34	0.10	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Sodium, total	7440-23-5	5.99	0.050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Strontium, total	7440-24-6	0.121	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Sulfur, total	7704-34-9	3.91	0.50	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Thallium, total	7440-28-0	<0.010	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Titanium, total	7440-32-6	0.00479	0.00030	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Uranium, total	7440-61-1	0.174	0.010	µg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Vanadium, total	7440-62-2	0.00053	0.00050	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Zirconium, total	7440-67-7	0.00032	0.00020	mg/L	E420/EO	07-Aug-2026	07-Aug-2026	2754269
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.110	0.0010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Arsenic, dissolved	7440-38-2	0.00086	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Barium, dissolved	7440-39-3	0.0363	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Boron, dissolved	7440-42-8	0.023	0.010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Cadmium, dissolved	7440-43-9	0.0062	0.0050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Calcium, dissolved	7440-70-2	18.0	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Cesium, dissolved	7440-46-2	0.014	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Copper, dissolved	7440-50-8	0.00291	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Iron, dissolved	7439-89-6	0.246	0.010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Lead, dissolved	7439-92-1	0.100	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Lithium, dissolved	7439-93-2	0.0049	0.0010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Magnesium, dissolved	7439-95-4	5.30	0.0050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Manganese, dissolved	7439-96-5	0.0285	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Molybdenum, dissolved	7439-98-7	0.520	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Nickel, dissolved	7440-02-0	0.00138	0.00050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298



Analytical Results

FC2601867-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 05-Aug-2026 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Potassium, dissolved	7440-09-7	1.28	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Rubidium, dissolved	7440-17-7	0.00132	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Selenium, dissolved	7782-49-2	0.118	0.050	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Silicon, dissolved	7440-21-3	2.41	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Sodium, dissolved	7440-23-5	5.97	0.050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Strontium, dissolved	7440-24-6	0.112	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Sulfur, dissolved	7704-34-9	4.00	0.50	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Titanium, dissolved	7440-32-6	0.00547	0.00030	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Uranium, dissolved	7440-61-1	0.166	0.010	µg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Zirconium, dissolved	7440-67-7	0.00037	0.00020	mg/L	E421/EO	07-Aug-2026	07-Aug-2026	2754298
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	07-Aug-2026	2754298
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	07-Aug-2026	07-Aug-2026	2754275
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	07-Aug-2026	07-Aug-2026	2754337
F1-BTEX	----	<26	26	µg/L	EC580/EO	-	07-Aug-2026	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	07-Aug-2026	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	07-Aug-2026	07-Aug-2026	2754317
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	99.0	1.0	%	E601/EO	07-Aug-2026	07-Aug-2026	2754317
Dichlorotoluene, 3,4-	95-75-0	81.5	1.0	%	E581.F1/EO	07-Aug-2026	07-Aug-2026	2754337
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	77.5	1.0	%	E611A/EO	07-Aug-2026	07-Aug-2026	2754338



Analytical Results

FC2601867-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 05-Aug-2026 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds Surrogates								
Difluorobenzene, 1,4-	540-36-3	97.8	1.0	%	E611A/EO	07-Aug-2026	07-Aug-2026	2754338
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Indeno(1,2,3-cd)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.030	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.060	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, total (CCME sewer 18)	n/a	<0.070	0.070	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
PAHs, total (P2MMP)	n/a	<0.040	0.040	µg/L	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	94.9	0.1	%	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Naphthalene-d8	1146-65-2	97.4	0.1	%	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Phenanthrene-d10	1517-22-2	93.2	0.1	%	E641A/EO	07-Aug-2026	07-Aug-2026	2754318
Disinfectant By-Products								
Chlorate	14866-68-3	<0.010	0.010	mg/L	E409.CLO3/WT	07-Aug-2026	07-Aug-2026	2754273
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	07-Aug-2026	07-Aug-2026	2754274

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