
CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order : **FC2502917**
Amendment : **1**
Client : **Regional Municipality of Wood Buffalo**
Contact : Water Treatment Plant
Address : 1 Silin Forest Road
Fort McMurray Alberta Canada T9H 5A1
Telephone : 780-762-5863
Project : Fort Chipewyan - SC4 Raw and+Table 1 Treated
PO : 4500069025
C-O-C number : ----
Sampler : EA
Site : ----
Quote number : FC24-RMWB100-0005 FC SC4
No. of samples received : 2
No. of samples analysed : 2

Laboratory : ALS Environmental - Fort McMurray
Account Manager : Megha Walia
Address : #4, 340 Macalpine Crescent
Fort McMurray AB Canada T9H 4A8
Telephone : +1 780 791 1524
Date Samples Received : 06-Oct-2025 14:10
Date Analysis Commenced : 07-Oct-2025
Issue Date : 21-Oct-2025 16:51

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
- Guideline Comparison

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>
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Sanja Risticvic	Department Manager - LCMS	LCMS, Waterloo, Ontario
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta



No Breaches Found

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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
%	percent
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Workorder Comments

FC2502917-002 - RRQC/RRR; Surrogate recovery is outside of ALS control limits. Associated non-detect results are reliable.



Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
SP	Sample was preserved at the laboratory.



Analytical Results Evaluation

Matrix: Water

Client sample ID				FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
Client sampling date / time				06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502917-001	FC2502917-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Physical Tests										
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	mg/L	----	49.4	----	----	----	----	----
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	mg/L	----	<0.6	----	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	mg/L	----	<0.3	----	----	----	----	----
Alkalinity, total (as CaCO3)	----	E290/EO	mg/L	----	40.5	----	----	----	----	----
Colour, true	----	E329-L/EO	CU	----	9.1	----	----	----	----	----
Conductivity	----	E100/EO	µS/cm	----	108	----	----	----	----	----
Hardness (as CaCO3), dissolved	----	EC100/EO	mg/L	----	43.6	----	----	----	----	----
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/EO	mg/L	----	44.0	----	----	----	----	----
pH	----	E108/EO	pH units	----	7.69	----	----	----	----	----
Salinity	----	EC100S/VA	psu	<1.0	----	----	----	----	----	----
Solids, total dissolved [TDS]	----	E162/EO	mg/L	----	88	----	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	mg/L	----	58.3	----	----	----	----	----
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/EO	mg/L	----	<0.0050 ^{SP}	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/EO	mg/L	----	4.25	----	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	mg/L	----	0.079	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO3/EO	mg/L	----	<0.020	----	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/E O	mg/L	----	<0.0224	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO2/EO	mg/L	----	<0.010	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
Sub-Matrix					Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502917-001	FC2502917-002	----	----	----	----	----	----
						Result	Result	----	----	----	----
Anions and Nutrients											
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	mg/L	----	6.02	----	----	----	----	----	----
Cyanides											
Cyanide, strong acid dissociable (Total)	----	E333/WT	mg/L	----	<0.0020	----	----	----	----	----	----
Organic / Inorganic Carbon											
Carbon, total organic [TOC]	----	E355-L/CG	mg/L	----	5.00	----	----	----	----	----	----
Inorganics											
Chlorine, total	7782-50-5	E326-H/EO	mg/L	----	<0.10	----	----	----	----	----	----
Chlorine, free	7782-50-5	E327-H/EO	mg/L	----	<0.10	----	----	----	----	----	----
Chloramines, total (as Cl2)	----	EC326/EO	mg/L	----	<0.20	----	----	----	----	----	----
Total Sulfides											
Sulfide, total (as S)	18496-25-8	E395/CG	mg/L	<0.0015	<0.0015	----	----	----	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	mg/L	<0.0016	<0.0016	----	----	----	----	----	----
Metals											
Sodium adsorption ratio [SAR]	----	EC102A/EO	-	0.96	----	----	----	----	----	----	----
Ion Balance											
Ion balance (cations/anions)	----	EC101/EO	%	----	102	----	----	----	----	----	----
Total Metals											
Aluminum, total	7429-90-5	E420/EO	mg/L	0.0130	0.0511	----	----	----	----	----	----
Antimony, total	7440-36-0	E420/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	mg/L	0.00032	0.00044	----	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Total Metals											
Barium, total	7440-39-3	E420/EO	mg/L		0.0241	0.0232	----	----	----	----	----
Beryllium, total	7440-41-7	E420/EO	mg/L		<0.000020	<0.000020	----	----	----	----	----
Bismuth, total	7440-69-9	E420/EO	mg/L		<0.000050	<0.000050	----	----	----	----	----
Boron, total	7440-42-8	E420/EO	mg/L		0.014	0.014	----	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	µg/L		----	<0.0050	----	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	mg/L		<0.0000050	----	----	----	----	----	----
Calcium, total	7440-70-2	E420/EO	mg/L		12.8	11.4	----	----	----	----	----
Cesium, total	7440-46-2	E420/EO	mg/L		<0.000010	<0.000010	----	----	----	----	----
Chromium, total	7440-47-3	E420/EO	mg/L		<0.00050	<0.00050	----	----	----	----	----
Cobalt, total	7440-48-4	E420/EO	mg/L		<0.00010	<0.00010	----	----	----	----	----
Copper, total	7440-50-8	E420/EO	mg/L		0.00095	0.00126	----	----	----	----	----
Iron, total	7439-89-6	E420/EO	mg/L		<0.010	0.084	----	----	----	----	----
Lead, total	7439-92-1	E420/EO	µg/L		<0.050	<0.050	----	----	----	----	----
Lithium, total	7439-93-2	E420/EO	mg/L		0.0031	0.0030	----	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	mg/L		3.75	3.77	----	----	----	----	----
Manganese, total	7439-96-5	E420/EO	mg/L		0.00135	0.00529	----	----	----	----	----
Mercury, total	7439-97-6	E508/EO	µg/L		----	<0.0050	----	----	----	----	----
Molybdenum, total	7439-98-7	E420/EO	mg/L		0.000237	0.000273	----	----	----	----	----
Nickel, total	7440-02-0	E420/EO	mg/L		0.00068	0.00082	----	----	----	----	----
Phosphorus, total	7723-14-0	E420/EO	mg/L		<0.050	<0.050	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Total Metals											
Potassium, total	7440-09-7	E420/EO	mg/L	0.968	0.973	----	----	----	----	----	----
Rubidium, total	7440-17-7	E420/EO	mg/L	0.00099	0.00108	----	----	----	----	----	----
Selenium, total	7782-49-2	E420/EO	µg/L	----	0.076	----	----	----	----	----	----
Selenium, total	7782-49-2	E420/EO	mg/L	<0.000050	----	----	----	----	----	----	----
Silicon, total	7440-21-3	E420/EO	mg/L	1.07	1.35	----	----	----	----	----	----
Silver, total	7440-22-4	E420/EO	µg/L	----	<0.010	----	----	----	----	----	----
Silver, total	7440-22-4	E420/EO	mg/L	<0.000010	----	----	----	----	----	----	----
Sodium, total	7440-23-5	E420/EO	mg/L	14.1	3.90	----	----	----	----	----	----
Strontium, total	7440-24-6	E420/EO	mg/L	0.0793	0.0778	----	----	----	----	----	----
Sulfur, total	7704-34-9	E420/EO	mg/L	2.44	2.61	----	----	----	----	----	----
Tellurium, total	13494-80-9	E420/EO	mg/L	<0.00020	<0.00020	----	----	----	----	----	----
Thallium, total	7440-28-0	E420/EO	mg/L	<0.000010	<0.000010	----	----	----	----	----	----
Thorium, total	7440-29-1	E420/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Tin, total	7440-31-5	E420/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Titanium, total	7440-32-6	E420/EO	mg/L	<0.00030	0.00114	----	----	----	----	----	----
Tungsten, total	7440-33-7	E420/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Uranium, total	7440-61-1	E420/EO	µg/L	----	0.067	----	----	----	----	----	----
Uranium, total	7440-61-1	E420/EO	mg/L	<0.000010	----	----	----	----	----	----	----
Vanadium, total	7440-62-2	E420/EO	mg/L	<0.00050	<0.00050	----	----	----	----	----	----
Zinc, total	7440-66-6	E420/EO	mg/L	0.0076	<0.0030	----	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Total Metals											
Zirconium, total	7440-67-7	E420/EO	mg/L		<0.00020	<0.00020	----	----	----	----	----
Dissolved Metals											
Aluminum, dissolved	7429-90-5	E421/EO	mg/L		0.0116	0.0086	----	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	mg/L		<0.00010	<0.00010	----	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	mg/L		0.00032	0.00042	----	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	mg/L		0.0244	0.0238	----	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	µg/L		----	<0.020	----	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	mg/L		<0.000020	----	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	µg/L		----	<0.050	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	mg/L		<0.000050	----	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/EO	mg/L		0.022	0.019	----	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	µg/L		----	<0.0050	----	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	mg/L		<0.0000050	----	----	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	mg/L		12.9	11.8	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	µg/L		----	<0.010	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	mg/L		<0.000010	----	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	µg/L		----	<0.50	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	mg/L		<0.00050	----	----	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	mg/L		<0.00010	<0.00010	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/EO	mg/L		0.00099	0.00108	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
				Result	Result		----	----	----	----	----
Dissolved Metals											
Iron, dissolved	7439-89-6	E421/EO	mg/L	<0.010	0.020	----	----	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	µg/L	----	<0.050	----	----	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	mg/L	<0.000050	----	----	----	----	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	mg/L	0.0032	0.0032	----	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	mg/L	3.58	3.44	----	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	mg/L	0.00085	0.00084	----	----	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	mg/L	0.000258	0.000308	----	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	mg/L	<0.00050	<0.00050	----	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	mg/L	<0.050	<0.050	----	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	mg/L	1.03	1.01	----	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	mg/L	0.00101	0.00105	----	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	µg/L	----	0.064	----	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	mg/L	<0.000050	----	----	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	mg/L	0.999	1.16	----	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	µg/L	----	<0.010	----	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	mg/L	<0.000010	----	----	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	mg/L	15.2	4.22	----	----	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	mg/L	0.0794	0.0776	----	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	mg/L	2.11	2.18	----	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	mg/L	<0.00020	<0.00020	----	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
				Result	Result		----	----	----	----	----
Dissolved Metals											
Thallium, dissolved	7440-28-0	E421/EO	µg/L	----	<0.010	----	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	mg/L	<0.000010	----	----	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	mg/L	<0.00030	<0.00030	----	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	µg/L	----	0.060	----	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	mg/L	<0.000010	----	----	----	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	mg/L	<0.00050	<0.00050	----	----	----	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	mg/L	<0.0010	0.0016	----	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	mg/L	----	<0.00020	----	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	mg/L	<0.00030	----	----	----	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	Field	Field	----	----	----	----	----	----
Aggregate Organics											
Naphthenic acids	----	E565/EO	mg/L	<1.0	----	----	----	----	----	----	----
Nitritotriacetic acid [NTA]	139-13-9	E394/WT	mg/L	----	<0.40	----	----	----	----	----	----
Volatile Organic Compounds											
Benzene	71-43-2	E611E/EO	µg/L	----	<0.50	----	----	----	----	----	----
Carbon tetrachloride	56-23-5	E611E/EO	µg/L	----	<0.50	----	----	----	----	----	----
Chlorobenzene	108-90-7	E611E/EO	µg/L	----	<1.0	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
					Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----
					Sub-Matrix	Water	Water	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	
Volatile Organic Compounds											
Dichlorobenzene, 1,2-	95-50-1	E611E/EO	µg/L		----	<0.50	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611E/EO	µg/L		----	<1.0	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611E/EO	µg/L		----	<1.0	----	----	----	----	----
Dichloromethane	75-09-2	E611E/EO	µg/L		----	<1.0	----	----	----	----	----
Dioxane, 1,4-	123-91-1	E611I/WT	µg/L		----	<20	----	----	----	----	----
Ethylbenzene	100-41-4	E611E/EO	µg/L		----	<0.50	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611E/EO	µg/L		----	<1.0	----	----	----	----	----
Toluene	108-88-3	E611E/EO	µg/L		----	<0.50	----	----	----	----	----
Trichloroethylene	79-01-6	E611E/EO	µg/L		----	<1.0	----	----	----	----	----
Vinyl chloride	75-01-4	E611E/EO	µg/L		----	<1.0	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611E/EO	µg/L		----	<0.40	----	----	----	----	----
Xylene, o-	95-47-6	E611E/EO	µg/L		----	<0.30	----	----	----	----	----
Xylenes, total	1330-20-7	E611E/EO	µg/L		----	<0.50	----	----	----	----	----
Volatile Organic Compounds [Fuels]											
Benzene	71-43-2	E611A/EO	µg/L		<0.50	----	----	----	----	----	----
Ethylbenzene	100-41-4	E611A/EO	µg/L		<0.50	----	----	----	----	----	----
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A/EO	µg/L		<0.50	----	----	----	----	----	----
Styrene	100-42-5	E611A/EO	µg/L		<0.50	----	----	----	----	----	----
Toluene	108-88-3	E611A/EO	µg/L		<0.50	----	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611A/EO	µg/L		<0.40	----	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Volatile Organic Compounds [Fuels]											
Xylene, o-	95-47-6	E611A/EO	µg/L		<0.30	----	----	----	----	----	----
Xylenes, total	1330-20-7	E611A/EO	µg/L		<0.50	----	----	----	----	----	----
BTEX, total	----	E611A/EO	µg/L		<1.0	----	----	----	----	----	----
Hydrocarbons											
F1 (C6-C10)	----	E581.F1/EO	µg/L		<100	----	----	----	----	----	----
F1-BTEX	----	EC580/EO	µg/L		<100	----	----	----	----	----	----
F2 (C10-C16)	----	E601/EO	µg/L		<100	----	----	----	----	----	----
F3 (C16-C34)	----	E601/EO	µg/L		<250	----	----	----	----	----	----
F4 (C34-C50)	----	E601/EO	µg/L		<250	----	----	----	----	----	----
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	µg/L		<380	----	----	----	----	----	----
TEH (C10-C50)	n/a	E601/EO	µg/L		<400	----	----	----	----	----	----
TEH (C16-C50)	----	E601/EO	µg/L		<400	----	----	----	----	----	----
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	%		94.7	----	----	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	%		118	----	----	----	----	----	----
Volatile Organic Compounds Surrogates											
Bromofluorobenzene, 4-	460-00-4	E611I/WT	%		----	104	----	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611E/EO	%		----	107	----	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611A/EO	%		103	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611I/WT	%		----	101	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Volatile Organic Compounds Surrogates											
Difluorobenzene, 1,4-	540-36-3	E611E/EO	%		----	115	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	%		86.4	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Acenaphthene	83-32-9	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Acenaphthylene	208-96-8	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Acridine	260-94-6	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Anthracene	120-12-7	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Benz(a)anthracene	56-55-3	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Benzo(a)pyrene	50-32-8	E641A/EO	µg/L		<0.0050	<0.0050	----	----	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	µg/L		<0.015	----	----	----	----	----	----
Benzo(e)pyrene	192-97-2	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Benzo(g,h,i)perylene	191-24-2	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Benzo(k)fluoranthene	207-08-9	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Chrysene	218-01-9	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Dibenz(a,h)anthracene	53-70-3	E641A/EO	µg/L		<0.0050	----	----	----	----	----	----
Fluoranthene	206-44-0	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Fluorene	86-73-7	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/EO	µg/L		<0.010	----	----	----	----	----	----
Methylnaphthalene, 1-	90-12-0	E641A/EO	µg/L		<0.010	----	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons											
Methylnaphthalene, 1+2-	----	E641A/EO	µg/L	<0.015	----	----	----	----	----	----	----
Methylnaphthalene, 2-	91-57-6	E641A/EO	µg/L	<0.010	----	----	----	----	----	----	----
Naphthalene	91-20-3	E641A/EO	µg/L	<0.050	----	----	----	----	----	----	----
Perylene	198-55-0	E641A/EO	µg/L	<0.010	----	----	----	----	----	----	----
Phenanthrene	85-01-8	E641A/EO	µg/L	<0.020	----	----	----	----	----	----	----
Pyrene	129-00-0	E641A/EO	µg/L	<0.010	----	----	----	----	----	----	----
Quinoline	91-22-5	E641A/EO	µg/L	<0.050	----	----	----	----	----	----	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/EO	µg/L	<0.010	----	----	----	----	----	----	----
PAHs, high molecular weight (BC AWQ)	n/a	E641A/EO	µg/L	<0.030	----	----	----	----	----	----	----
PAHs, low molecular weight (BC AWQ)	n/a	E641A/EO	µg/L	<0.060	----	----	----	----	----	----	----
PAHs, total (CCME sewer 18)	n/a	E641A/EO	µg/L	<0.070	----	----	----	----	----	----	----
PAHs, total (EPA 16)	n/a	E641A/EO	µg/L	<0.065	----	----	----	----	----	----	----
PAHs, total (P2MMP)	n/a	E641A/EO	µg/L	<0.040	----	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates											
Chrysene-d12	1719-03-5	E641A/EO	%	92.4	102	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	%	97.5	91.1	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	%	90.1	96.8	----	----	----	----	----	----
Disinfectant By-Products											
Bromate	15541-45-4	E722A/WT	µg/L	----	<0.30	----	----	----	----	----	----
Chlorate	14866-68-3	E409.CLO3/W T	mg/L	0.063	<0.010	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
Sub-Matrix					Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502917-001	FC2502917-002	----	----	----	----	----	----
						Result	Result	----	----	----	----
Disinfectant By-Products											
Chlorite	14998-27-7	E409.CLO2/W T	mg/L	----	<0.010	----	----	----	----	----	----
Semi-Volatile Organics											
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725-T/WT	µg/L	----	<0.00090	----	----	----	----	----	----
Semi-Volatile Organics Surrogates											
Fluorobiphenyl, 2-	321-60-8	E625A/WT	%	----	93.6	----	----	----	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	%	----	102	----	----	----	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	%	----	181 ^{RRR}	----	----	----	----	----	----
Chlorinated Phenolics											
Dichlorophenol, 2,4-	120-83-2	E625A/WT	µg/L	----	<0.20	----	----	----	----	----	----
Pentachlorophenol [PCP]	87-86-5	E625A/WT	µg/L	----	<0.50	----	----	----	----	----	----
Tetrachlorophenol, 2,3,4,6-	58-90-2	E625A/WT	µg/L	----	<0.50	----	----	----	----	----	----
Trichlorophenol, 2,4,6-	88-06-2	E625A/WT	µg/L	----	<0.20	----	----	----	----	----	----
Phenolics Surrogates											
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	%	----	96.7	----	----	----	----	----	----
Organochlorine Pesticides Surrogates											
Decachlorobiphenyl	2051-24-3	E660F/WT	%	----	77.0	----	----	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	%	----	105	----	----	----	----	----	----
Herbicides											
Alachlor	15972-60-8	E755/WT	µg/L	----	<0.050	----	----	----	----	----	----
Atrazine	1912-24-9	E755/WT	µg/L	----	<0.050	----	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	FCWTP-Treated Water Lab Sink ----	FCWTP-Raw Water Chamber ----	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Herbicides											
Atrazine + metabolites, total	----	E755/WT	µg/L	----	<0.45	----	----	----	----	----	----
Atrazine + N-dealkylated metabolites	----	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Atrazine-desethyl	6190-65-4	E755/WT	µg/L	----	<0.025	----	----	----	----	----	----
Cyanazine	21725-46-2	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Diclofop-methyl	51338-27-3	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Dinoseb	88-85-7	E706A/WT	µg/L	----	<0.050	----	----	----	----	----	----
Diuron	330-54-1	E755/WT	µg/L	----	<0.050	----	----	----	----	----	----
Metolachlor	51218-45-2	E755/WT	µg/L	----	<0.025	----	----	----	----	----	----
Metribuzin	21087-64-9	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Prometryn	7287-19-6	E755/WT	µg/L	----	<0.025	----	----	----	----	----	----
Simazine	122-34-9	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Triallate	2303-17-5	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Trifluralin	1582-09-8	E756/WT	µg/L	----	<0.10	----	----	----	----	----	----
Herbicides Surrogates											
Dichlorophenylacetic acid, 2,4-	19719-28-9	E706A/WT	%	----	99.1	----	----	----	----	----	----
Insecticides											
Aldicarb	116-06-3	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Azinphos-methyl	86-50-0	E755/WT	µg/L	----	<0.10	----	----	----	----	----	----
Bendiocarb	22781-23-3	E755/WT	µg/L	----	<0.025	----	----	----	----	----	----
Carbaryl	63-25-2	E755/WT	µg/L	----	<0.050	----	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Insecticides											
Carbofuran	1563-66-2	E755/WT	µg/L		----	<0.025	----	----	----	----	----
Chlorpyrifos	2921-88-2	E756/WT	µg/L		----	<0.10	----	----	----	----	----
Diazinon	333-41-5	E755/WT	µg/L		----	<0.025	----	----	----	----	----
Dimethoate	60-51-5	E755/WT	µg/L		----	<0.050	----	----	----	----	----
Malathion	121-75-5	E755/WT	µg/L		----	<0.025	----	----	----	----	----
Parathion	56-38-2	E756/WT	µg/L		----	<0.10	----	----	----	----	----
Phorate	298-02-2	E755/WT	µg/L		----	<0.25	----	----	----	----	----
Temephos	3383-96-8	E755/WT	µg/L		----	<0.25	----	----	----	----	----
Terbufos	13071-79-9	E755/WT	µg/L		----	<0.50	----	----	----	----	----
Pesticides											
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	E706A/WT	µg/L		----	<0.050	----	----	----	----	----
Aldrin	309-00-2	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Aldrin + Dieldrin	----	E660F/WT	µg/L		----	<0.011	----	----	----	----	----
Bromoxynil	1689-84-5	E706A/WT	µg/L		----	<0.050	----	----	----	----	----
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Chlordane, total	57-74-9	E660F/WT	µg/L		----	<0.011	----	----	----	----	----
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
DDD, 2,4'-	53-19-0	E660F/WT	µg/L		----	<0.0040	----	----	----	----	----
DDD, 4,4'-	72-54-8	E660F/WT	µg/L		----	<0.0040	----	----	----	----	----



Matrix: Water

				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit		FC2502917-001	FC2502917-002	----	----	----	----	----
					Result	Result	----	----	----	----	----
Pesticides											
DDD, total	----	E660F/WT	µg/L		----	<0.0060	----	----	----	----	----
DDE, 2,4'-	3424-82-6	E660F/WT	µg/L		----	<0.0040	----	----	----	----	----
DDE, 4,4'-	72-55-9	E660F/WT	µg/L		----	<0.0040	----	----	----	----	----
DDE, total	----	E660F/WT	µg/L		----	<0.0060	----	----	----	----	----
DDT + metabolites, total	----	E660F/WT	µg/L		----	<0.010	----	----	----	----	----
DDT, 2,4'-	789-02-6	E660F/WT	µg/L		----	<0.0040	----	----	----	----	----
DDT, 4,4'-	50-29-3	E660F/WT	µg/L		----	<0.0040	----	----	----	----	----
DDT, total	----	E660F/WT	µg/L		----	<0.0060	----	----	----	----	----
Dicamba	1918-00-9	E706A/WT	µg/L		----	<0.10	----	----	----	----	----
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	E706A/WT	µg/L		----	<0.050	----	----	----	----	----
Dieldrin	60-57-1	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Diquat (ion)	2764-72-9	E723A/WT	µg/L		----	<1.0	----	----	----	----	----
Glyphosate	1071-83-6	E716A/WT	µg/L		----	<1.0	----	----	----	----	----
Heptachlor	76-44-8	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Heptachlor + Heptachlor epoxide	n/a	E660F/WT	µg/L		----	<0.011	----	----	----	----	----
Heptachlor epoxide	1024-57-3	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Methoxychlor	72-43-5	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Oxychlordan	27304-13-8	E660F/WT	µg/L		----	<0.0080	----	----	----	----	----
Paraquat (as dichloride)	1910-42-5	E723A/WT	µg/L		----	<1.0	----	----	----	----	----



Matrix: Water

Matrix: Water				Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502917-001	FC2502917-002	----	----	----	----	----	----
				Result	Result	----	----	----	----	----	----
Pesticides											
Picloram	1918-02-1	E706A/WT	µg/L	----	<0.50 ^{DLM}	----	----	----	----	----	----
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	E706A/WT	µg/L	----	<0.050	----	----	----	----	----	----
Nitrosamines Surrogates											
Nitrosodimethylamine-d6, N-	17829-05-9	E725-T/WT	%	----	106	----	----	----	----	----	----

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



Summary of Guideline Limits

CERTIFICATE OF ANALYSIS

Work Order : **FC2502917**
Amendment : **1**
Client : **Regional Municipality of Wood Buffalo**
Contact : Water Treatment Plant
Address : 1 Silin Forest Road
Fort McMurray Alberta Canada T9H 5A1
Telephone : 780-762-5863
Project : Fort Chipewyan - SC4 Raw and+Table 1 Treated
PO : 4500069025
C-O-C number : ----
Sampler : EA
Site : ----
Quote number : FC24-RMWB100-0005 FC SC4
No. of samples received : 2
No. of samples analysed : 2

Laboratory : ALS Environmental - Fort McMurray
Account Manager : Megha Walia
Address : #4, 340 Macalpine Crescent
Fort McMurray AB Canada T9H 4A8
E-mail : Megha.Walia@alsglobal.com
Telephone : +1 780 791 1524
Date Samples Received : 06-Oct-2025 14:10
Date Analysis Commenced : 07-Oct-2025
Issue Date : 21-Oct-2025 16:51

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>
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Sanja Risticovic	Department Manager - LCMS	LCMS, Waterloo, Ontario
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
CU	colour units (1 cu = 1 mg/l pt)
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.

Workorder Comments

FC2502917-002 - RRQC/RRR; Surrogate recovery is outside of ALS control limits. Associated non-detect results are reliable.



Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
SP	Sample was preserved at the laboratory.



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	FCWTP-Treated Water Lab Sink ----	FCWTP-Raw Water Chamber ----	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----	
					Result	Result	----	----	----	
Physical Tests										
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.2	mg/L	----	49.4	----	----	----	
Alkalinity, carbonate (as CO3)	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 CaCO3)	----	E290/EO	1.0	mg/L	----	40.5	----	----	----	
Colour, true	----	E329-L/EO	2.0	CU	----	9.1	----	----	----	
Conductivity	----	E100/EO	1.0	µS/cm	----	108	----	----	----	
Hardness (as CaCO3), dissolved	----	EC100/EO	0.50	mg/L	----	43.6	----	----	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/EO	0.50	mg/L	----	44.0	----	----	----	
pH	----	E108/EO	0.10	pH units	----	7.69	----	----	----	
Salinity	----	EC100S/VA	1.0	psu	<1.0	----	----	----	----	
Solids, total dissolved [TDS]	----	E162/EO	10	mg/L	----	88	----	----	----	
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	----	58.3	----	----	----	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/EO	0.0050	mg/L	----	<0.0050 ^{SP}	----	----	----	
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	----	4.25	----	----	----	
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	----	0.079	----	----	----	
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	----	<0.0224	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	----	<0.010	----	----	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L	----	6.02	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Cyanides									
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	----	<0.0020	----	----	----
Organic / Inorganic Carbon									
Carbon, total organic [TOC]	----	E355-L/CG	0.50	mg/L	----	5.00	----	----	----
Inorganics									
Chlorine, total	7782-50-5	E326-H/EO	0.10	mg/L	----	<0.10	----	----	----
Chlorine, free	7782-50-5	E327-H/EO	0.10	mg/L	----	<0.10	----	----	----
Chloramines, total (as Cl ₂)	----	EC326/EO	0.20	mg/L	----	<0.20	----	----	----
Total Sulfides									
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	<0.0015	----	----	----
Sulfide, total (as H ₂ S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	<0.0016	----	----	----
Metals									
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	0.96	----	----	----	----
Ion Balance									
Ion balance (cations/anions)	----	EC101/EO	0.010	%	----	102	----	----	----
Total Metals									
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0130	0.0511	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00032	0.00044	----	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0241	0.0232	----	----	----
Beryllium, total	7440-41-7	E420/EO	0.000020	mg/L	<0.000020	<0.000020	----	----	----
Bismuth, total	7440-69-9	E420/EO	0.000050	mg/L	<0.000050	<0.000050	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Total Metals									
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.014	0.014	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0000050	mg/L	<0.0000050	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	----	<0.0050	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	12.8	11.4	----	----	----
Cesium, total	7440-46-2	E420/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----
Cobalt, total	7440-48-4	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.00095	0.00126	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	0.084	----	----	----
Lead, total	7439-92-1	E420/EO	0.050	µg/L	<0.050	<0.050	----	----	----
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0031	0.0030	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	3.75	3.77	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00135	0.00529	----	----	----
Mercury, total	7439-97-6	E508/EO	0.0050	µg/L	----	<0.0050	----	----	----
Molybdenum, total	7439-98-7	E420/EO	0.000050	mg/L	0.000237	0.000273	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.00068	0.00082	----	----	----
Phosphorus, total	7723-14-0	E420/EO	0.050	mg/L	<0.050	<0.050	----	----	----
Potassium, total	7440-09-7	E420/EO	0.050	mg/L	0.968	0.973	----	----	----
Rubidium, total	7440-17-7	E420/EO	0.00020	mg/L	0.00099	0.00108	----	----	----
Selenium, total	7782-49-2	E420/EO	0.000050	mg/L	<0.000050	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	----	0.076	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	FCWTP-Treated Water Lab Sink ----	FCWTP-Raw Water Chamber ----	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----	
					Result	Result	----	----	----	
Total Metals										
Silicon, total	7440-21-3	E420/EO	0.10	mg/L	1.07	1.35	----	----	----	
Silver, total	7440-22-4	E420/EO	0.000010	mg/L	<0.000010	----	----	----	----	
Silver, total	7440-22-4	E420/EO	0.010	µg/L	----	<0.010	----	----	----	
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	14.1	3.90	----	----	----	
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.0793	0.0778	----	----	----	
Sulfur, total	7704-34-9	E420/EO	0.50	mg/L	2.44	2.61	----	----	----	
Tellurium, total	13494-80-9	E420/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Thallium, total	7440-28-0	E420/EO	0.000010	mg/L	<0.000010	<0.000010	----	----	----	
Thorium, total	7440-29-1	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Tin, total	7440-31-5	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Titanium, total	7440-32-6	E420/EO	0.00030	mg/L	<0.00030	0.00114	----	----	----	
Tungsten, total	7440-33-7	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Uranium, total	7440-61-1	E420/EO	0.000010	mg/L	<0.000010	----	----	----	----	
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	----	0.067	----	----	----	
Vanadium, total	7440-62-2	E420/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----	
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	0.0076	<0.0030	----	----	----	
Zirconium, total	7440-67-7	E420/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----	
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0116	0.0086	----	----	----	
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00032	0.00042	----	----	----	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Dissolved Metals									
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0244	0.0238	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.000020	mg/L	<0.000020	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.020	µg/L	----	<0.020	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	0.000050	mg/L	<0.000050	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	0.050	µg/L	----	<0.050	----	----	----
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.022	0.019	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0000050	mg/L	<0.0000050	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	----	<0.0050	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	12.9	11.8	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.000010	mg/L	<0.000010	----	----	----	----
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	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	0.50	µg/L	----	<0.50	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00099	0.00108	----	----	----
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	<0.010	0.020	----	----	----
Lead, dissolved	7439-92-1	E421/EO	0.000050	mg/L	<0.000050	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	0.050	µg/L	----	<0.050	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0032	0.0032	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	3.58	3.44	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00085	0.00084	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Dissolved Metals									
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L	0.000258	0.000308	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	<0.050	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.03	1.01	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00101	0.00105	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.000050	mg/L	<0.000050	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	----	0.064	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	0.999	1.16	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.000010	mg/L	<0.000010	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	----	<0.010	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	15.2	4.22	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0794	0.0776	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	2.11	2.18	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	<0.00020	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	0.000010	mg/L	<0.000010	----	----	----	----
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	<0.00010	----	----	----
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	<0.00030	<0.00030	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	0.000010	mg/L	<0.000010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Dissolved Metals									
Uranium, dissolved	7440-61-1	E421/EO	0.010	µg/L	----	0.060	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	0.00050	mg/L	<0.00050	<0.00050	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	0.0010	mg/L	<0.0010	0.0016	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	----	<0.00020	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00030	mg/L	<0.00030	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	-	Field	Field	----	----	----
Aggregate Organics									
Naphthenic acids	----	E565/EO	1.0	mg/L	<1.0	----	----	----	----
Nitritotriacetic acid [NTA]	139-13-9	E394/WT	0.40	mg/L	----	<0.40	----	----	----
Volatile Organic Compounds									
Benzene	71-43-2	E611E/EO	0.50	µg/L	----	<0.50	----	----	----
Carbon tetrachloride	56-23-5	E611E/EO	0.50	µg/L	----	<0.50	----	----	----
Chlorobenzene	108-90-7	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611E/EO	0.50	µg/L	----	<0.50	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Dichloroethane, 1,2-	107-06-2	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Dichloromethane	75-09-2	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Dioxane, 1,4-	123-91-1	E611I/WT	20	µg/L	----	<20	----	----	----
Ethylbenzene	100-41-4	E611E/EO	0.50	µg/L	----	<0.50	----	----	----
Tetrachloroethylene	127-18-4	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Toluene	108-88-3	E611E/EO	0.50	µg/L	----	<0.50	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Volatile Organic Compounds									
Trichloroethylene	79-01-6	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Vinyl chloride	75-01-4	E611E/EO	1.0	µg/L	----	<1.0	----	----	----
Xylene, m+p-	179601-23-1	E611E/EO	0.40	µg/L	----	<0.40	----	----	----
Xylene, o-	95-47-6	E611E/EO	0.30	µg/L	----	<0.30	----	----	----
Xylenes, total	1330-20-7	E611E/EO	0.50	µg/L	----	<0.50	----	----	----
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	<100	----	----	----	----
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					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	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	%	94.7	----	----	----	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	118	----	----	----	----
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	E611I/WT	1.0	%	----	104	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611E/EO	1.0	%	----	107	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	103	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611I/WT	1.0	%	----	101	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611E/EO	1.0	%	----	115	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%	86.4	----	----	----	----
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	<0.0050	----	----	----
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L	<0.010	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons									
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-c,d)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	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Polycyclic Aromatic Hydrocarbons									
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	%	92.4	102	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	97.5	91.1	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	90.1	96.8	----	----	----
Disinfectant By-Products									
Bromate	15541-45-4	E722A/WT	0.30	µg/L	----	<0.30	----	----	----
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.063	<0.010	----	----	----
Chlorite	14998-27-7	E409.CLO2/WT	0.010	mg/L	----	<0.010	----	----	----
Semi-Volatile Organics									
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725-T/WT	0.00090	µg/L	----	<0.00090	----	----	----
Semi-Volatile Organics Surrogates									
Fluorobiphenyl, 2-	321-60-8	E625A/WT	1.0	%	----	93.6	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	1.0	%	----	102	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	1.0	%	----	181 ^{RRR}	----	----	----
Chlorinated Phenolics									
Dichlorophenol, 2,4-	120-83-2	E625A/WT	0.20	µg/L	----	<0.20	----	----	----
Pentachlorophenol [PCP]	87-86-5	E625A/WT	0.50	µg/L	----	<0.50	----	----	----
Tetrachlorophenol, 2,3,4,6-	58-90-2	E625A/WT	0.50	µg/L	----	<0.50	----	----	----
Trichlorophenol, 2,4,6-	88-06-2	E625A/WT	0.20	µg/L	----	<0.20	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time						06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002				
					Result	Result	----	----	----	----
Phenolics Surrogates										
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	0.50	%	----	96.7	----	----	----	----
Organochlorine Pesticides Surrogates										
Decachlorobiphenyl	2051-24-3	E660F/WT	0.10	%	----	77.0	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	0.10	%	----	105	----	----	----	----
Herbicides										
Alachlor	15972-60-8	E755/WT	0.050	µg/L	----	<0.050	----	----	----	----
Atrazine	1912-24-9	E755/WT	0.050	µg/L	----	<0.050	----	----	----	----
Atrazine + metabolites, total	----	E755/WT	0.45	µg/L	----	<0.45	----	----	----	----
Atrazine + N-dealkylated metabolites	----	E755/WT	0.10	µg/L	----	<0.10	----	----	----	----
Atrazine-desethyl	6190-65-4	E755/WT	0.025	µg/L	----	<0.025	----	----	----	----
Cyanazine	21725-46-2	E755/WT	0.10	µg/L	----	<0.10	----	----	----	----
Diclofop-methyl	51338-27-3	E755/WT	0.10	µg/L	----	<0.10	----	----	----	----
Dinoseb	88-85-7	E706A/WT	0.050	µg/L	----	<0.050	----	----	----	----
Diuron	330-54-1	E755/WT	0.050	µg/L	----	<0.050	----	----	----	----
Metolachlor	51218-45-2	E755/WT	0.025	µg/L	----	<0.025	----	----	----	----
Metribuzin	21087-64-9	E755/WT	0.10	µg/L	----	<0.10	----	----	----	----
Prometryn	7287-19-6	E755/WT	0.025	µg/L	----	<0.025	----	----	----	----
Simazine	122-34-9	E755/WT	0.10	µg/L	----	<0.10	----	----	----	----
Triallate	2303-17-5	E755/WT	0.10	µg/L	----	<0.10	----	----	----	----
Trifluralin	1582-09-8	E756/WT	0.10	µg/L	----	<0.10	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----
					Result	Result	----	----	----
Herbicides Surrogates									
Dichlorophenylacetic acid, 2,4-	19719-28-9	E706A/WT	1.0	%	----	99.1	----	----	----
Insecticides									
Aldicarb	116-06-3	E755/WT	0.10	µg/L	----	<0.10	----	----	----
Azinphos-methyl	86-50-0	E755/WT	0.10	µg/L	----	<0.10	----	----	----
Bendiocarb	22781-23-3	E755/WT	0.025	µg/L	----	<0.025	----	----	----
Carbaryl	63-25-2	E755/WT	0.050	µg/L	----	<0.050	----	----	----
Carbofuran	1563-66-2	E755/WT	0.025	µg/L	----	<0.025	----	----	----
Chlorpyrifos	2921-88-2	E756/WT	0.10	µg/L	----	<0.10	----	----	----
Diazinon	333-41-5	E755/WT	0.025	µg/L	----	<0.025	----	----	----
Dimethoate	60-51-5	E755/WT	0.050	µg/L	----	<0.050	----	----	----
Malathion	121-75-5	E755/WT	0.025	µg/L	----	<0.025	----	----	----
Parathion	56-38-2	E756/WT	0.10	µg/L	----	<0.10	----	----	----
Phorate	298-02-2	E755/WT	0.25	µg/L	----	<0.25	----	----	----
Temephos	3383-96-8	E755/WT	0.25	µg/L	----	<0.25	----	----	----
Terbufos	13071-79-9	E755/WT	0.50	µg/L	----	<0.50	----	----	----
Pesticides									
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	E706A/WT	0.050	µg/L	----	<0.050	----	----	----
Aldrin	309-00-2	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----
Aldrin + Dieldrin	----	E660F/WT	0.011	µg/L	----	<0.011	----	----	----
Bromoxynil	1689-84-5	E706A/WT	0.050	µg/L	----	<0.050	----	----	----
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Sub-Matrix: Water (Matrix: Water)					Client sample ID	FCWTP-Treated Water Lab Sink ----	FCWTP-Raw Water Chamber ----	----	----	----
Client sampling date / time					06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----	
					Result	Result	----	----	----	
Pesticides										
Chlordane, total	57-74-9	E660F/WT	0.011	µg/L	----	<0.011	----	----	----	
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	
DDD, 2,4'-	53-19-0	E660F/WT	0.0040	µg/L	----	<0.0040	----	----	----	
DDD, 4,4'-	72-54-8	E660F/WT	0.0040	µg/L	----	<0.0040	----	----	----	
DDD, total	----	E660F/WT	0.0060	µg/L	----	<0.0060	----	----	----	
DDE, 2,4'-	3424-82-6	E660F/WT	0.0040	µg/L	----	<0.0040	----	----	----	
DDE, 4,4'-	72-55-9	E660F/WT	0.0040	µg/L	----	<0.0040	----	----	----	
DDE, total	----	E660F/WT	0.0060	µg/L	----	<0.0060	----	----	----	
DDT + metabolites, total	----	E660F/WT	0.010	µg/L	----	<0.010	----	----	----	
DDT, 2,4'-	789-02-6	E660F/WT	0.0040	µg/L	----	<0.0040	----	----	----	
DDT, 4,4'-	50-29-3	E660F/WT	0.0040	µg/L	----	<0.0040	----	----	----	
DDT, total	----	E660F/WT	0.0060	µg/L	----	<0.0060	----	----	----	
Dicamba	1918-00-9	E706A/WT	0.10	µg/L	----	<0.10	----	----	----	
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	E706A/WT	0.050	µg/L	----	<0.050	----	----	----	
Dieldrin	60-57-1	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	
Diquat (ion)	2764-72-9	E723A/WT	1.0	µg/L	----	<1.0	----	----	----	
Glyphosate	1071-83-6	E716A/WT	1.0	µg/L	----	<1.0	----	----	----	
Heptachlor	76-44-8	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	
Heptachlor + Heptachlor epoxide	n/a	E660F/WT	0.011	µg/L	----	<0.011	----	----	----	
Heptachlor epoxide	1024-57-3	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	



Analytical Results

Sub-Matrix: Water (Matrix: Water)					Client sample ID	FCWTP-Treated Water Lab Sink	FCWTP-Raw Water Chamber	----	----	----
					Client sampling date / time	06-Oct-2025 07:45	06-Oct-2025 07:45	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502917-001	FC2502917-002	----	----	----	
					Result	Result	----	----	----	
Pesticides										
Methoxychlor	72-43-5	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	
Oxychlordan	27304-13-8	E660F/WT	0.0080	µg/L	----	<0.0080	----	----	----	
Paraquat (as dichloride)	1910-42-5	E723A/WT	1.0	µg/L	----	<1.0	----	----	----	
Picloram	1918-02-1	E706A/WT	0.10	µg/L	----	<0.50 ^{DLM}	----	----	----	
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	E706A/WT	0.050	µg/L	----	<0.050	----	----	----	
Nitrosamines Surrogates										
Nitrosodimethylamine-d6, N-	17829-05-9	E725-T/WT	0.00090	%	----	106	----	----	----	

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2502917	Page	: 1 of 12
Amendment	: 1		
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Megha Walia
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 - SC4 Raw and+Table 1 Treated	Date Samples Received	: 06-Oct-2025 14:10
PO	: 4500069025	Date Analysis	: 07-Oct-2025
C-O-C number	: ----	Commenced	
Sampler	: EA	Issue Date	: 21-Oct-2025 16:50
Site	: ----		
Quote number	: FC24-RMWB100-0005 FC SC4		
No. of samples received	: 2		
No. of samples analysed	: 2		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Laboratory Department
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Elke Tabora	Lab Analyst	Inorganics, Calgary, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Sanja Risticcevic	Department Manager - LCMS	LCMS, Waterloo, Ontario
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
CU	colour units (1 cu = 1 mg/l pt)
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.

Workorder Comments

FC2502917-002 - RRQC/RRR; Surrogate recovery is outside of ALS control limits. Associated non-detect results are reliable.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
SP	Sample was preserved at the laboratory.



Analytical Results

FC2502917-001

Sub-Matrix: Water
(Matrix: Water)

Client sample ID: FCWTP-Treated Water Lab Sink
Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	14-Oct-2025	-
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	08-Oct-2025	2264462
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	08-Oct-2025	2264462
Metals								
Sodium adsorption ratio [SAR]	----	0.96	0.10	-	EC102A/EO	-	09-Oct-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0130	0.0030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Arsenic, total	7440-38-2	0.00032	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Barium, total	7440-39-3	0.0241	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Boron, total	7440-42-8	0.014	0.010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Calcium, total	7440-70-2	12.8	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Copper, total	7440-50-8	0.00095	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Lead, total	7439-92-1	<0.050	0.050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Lithium, total	7439-93-2	0.0031	0.0010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Magnesium, total	7439-95-4	3.75	0.0050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Manganese, total	7439-96-5	0.00135	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Molybdenum, total	7439-98-7	0.000237	0.000050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Nickel, total	7440-02-0	0.00068	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Potassium, total	7440-09-7	0.968	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Rubidium, total	7440-17-7	0.00099	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Silicon, total	7440-21-3	1.07	0.10	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Sodium, total	7440-23-5	14.1	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Strontium, total	7440-24-6	0.0793	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Sulfur, total	7704-34-9	2.44	0.50	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Uranium, total	7440-61-1	<0.000010	0.000010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Zinc, total	7440-66-6	0.0076	0.0030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319



Analytical Results

FC2502917-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Treated Water Lab Sink

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Total Metals								
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0116	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Arsenic, dissolved	7440-38-2	0.00032	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Barium, dissolved	7440-39-3	0.0244	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Boron, dissolved	7440-42-8	0.022	0.010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cadmium, dissolved	7440-43-9	<0.000050	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Calcium, dissolved	7440-70-2	12.9	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Copper, dissolved	7440-50-8	0.00099	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Lithium, dissolved	7439-93-2	0.0032	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Magnesium, dissolved	7439-95-4	3.58	0.0050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Manganese, dissolved	7439-96-5	0.00085	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Molybdenum, dissolved	7439-98-7	0.000258	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Potassium, dissolved	7440-09-7	1.03	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Rubidium, dissolved	7440-17-7	0.00101	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Silicon, dissolved	7440-21-3	0.999	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Sodium, dissolved	7440-23-5	15.2	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Strontium, dissolved	7440-24-6	0.0794	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Sulfur, dissolved	7704-34-9	2.11	0.50	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Zirconium, dissolved	7440-67-7	<0.00030	0.00030	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	08-Oct-2025	2264131
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	14-Oct-2025	17-Oct-2025	2274671
Volatile Organic Compounds [Fuels]								



Analytical Results

FC2502917-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Treated Water Lab Sink

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	11-Oct-2025	11-Oct-2025	2272166
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	12-Oct-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	09-Oct-2025	09-Oct-2025	2267643
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	09-Oct-2025	09-Oct-2025	2267643
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	09-Oct-2025	09-Oct-2025	2267643
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	10-Oct-2025	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	09-Oct-2025	09-Oct-2025	2267643
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	09-Oct-2025	09-Oct-2025	2267643
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	94.7	1.0	%	E601/EO	09-Oct-2025	09-Oct-2025	2267643
Dichlorotoluene, 3,4-	95-75-0	118	1.0	%	E581.F1/EO	11-Oct-2025	11-Oct-2025	2272166
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	103	1.0	%	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Difluorobenzene, 1,4-	540-36-3	86.4	1.0	%	E611A/EO	11-Oct-2025	11-Oct-2025	2272167
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644



Analytical Results

FC2502917-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Treated Water Lab Sink

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.01	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.03	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.06	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
PAHs, total (CCME sewer 18)	n/a	<0.070	0.07	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
PAHs, total (P2MMP)	n/a	<0.040	0.04	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	92.4	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Naphthalene-d8	1146-65-2	97.5	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Phenanthrene-d10	1517-22-2	90.1	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Disinfectant By-Products								
Chlorate	14866-68-3	0.063	0.010	mg/L	E409.CLO3/WT	09-Oct-2025	09-Oct-2025	2268902

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

Analytical Results

FC2502917-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Raw Water Chamber

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	49.4	1.2	mg/L	E290/EO	07-Oct-2025	07-Oct-2025	2263603
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	07-Oct-2025	07-Oct-2025	2263603
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	07-Oct-2025	07-Oct-2025	2263603
Alkalinity, total (as CaCO ₃)	----	40.5	1.0	mg/L	E290/EO	07-Oct-2025	07-Oct-2025	2263603
Colour, true	----	9.1	2.0	CU	E329-L/EO	08-Oct-2025	08-Oct-2025	2265958
Conductivity	----	108	1.0	µS/cm	E100/EO	07-Oct-2025	07-Oct-2025	2263602
Hardness (as CaCO ₃), dissolved	----	43.6	0.50	mg/L	EC100/EO	-	09-Oct-2025	-
Hardness (as CaCO ₃), from total Ca/Mg	----	44.0	0.50	mg/L	EC100A/EO	-	09-Oct-2025	-
pH	----	7.69	0.10	pH units	E108/EO	07-Oct-2025	07-Oct-2025	2263601
Solids, total dissolved [TDS]	----	88	13	mg/L	E162/EO	-	08-Oct-2025	2264420
Solids, total dissolved [TDS], calculated	----	58.3	1.0	mg/L	EC103/EO	-	08-Oct-2025	-
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	<0.0050 ^{SP}	0.0050	mg/L	E298/EO	08-Oct-2025	09-Oct-2025	2265013
Chloride	16887-00-6	4.25	0.50	mg/L	E235.Cl/EO	07-Oct-2025	07-Oct-2025	2263028
Fluoride	16984-48-8	0.079	0.020	mg/L	E235.F/EO	07-Oct-2025	07-Oct-2025	2263025
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO ₃ /EO	07-Oct-2025	07-Oct-2025	2263026
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	08-Oct-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO ₂ /EO	07-Oct-2025	07-Oct-2025	2263027
Sulfate (as SO ₄)	14808-79-8	6.02	0.30	mg/L	E235.SO ₄ /EO	07-Oct-2025	07-Oct-2025	2263029



Analytical Results

FC2502917-002

Sub-Matrix:Water

(Matrix: Water)

Client sample ID: FCWTP-Raw Water Chamber

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0020	0.0020	mg/L	E333/WT	14-Oct-2025	14-Oct-2025	2267482
Organic / Inorganic Carbon								
Carbon, total organic [TOC]	----	5.00	0.50	mg/L	E355-L/CG	10-Oct-2025	11-Oct-2025	2270550
Inorganics								
Chlorine, total	7782-50-5	<0.10	0.10	mg/L	E326-H/EO	-	07-Oct-2025	2263383
Chlorine, free	7782-50-5	<0.10	0.10	mg/L	E327-H/EO	-	07-Oct-2025	2262681
Chloramines, total (as Cl2)	----	<0.20	0.20	mg/L	EC326/EO	-	08-Oct-2025	-
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	08-Oct-2025	2264462
Sulfide, total (as H2S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	08-Oct-2025	2264462
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	08-Oct-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0511	0.0030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Arsenic, total	7440-38-2	0.00044	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Barium, total	7440-39-3	0.0232	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Boron, total	7440-42-8	0.014	0.010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cadmium, total	7440-43-9	<0.0050	0.0050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Calcium, total	7440-70-2	11.4	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Copper, total	7440-50-8	0.00126	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Iron, total	7439-89-6	0.084	0.010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Lead, total	7439-92-1	<0.050	0.050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Lithium, total	7439-93-2	0.0030	0.0010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Magnesium, total	7439-95-4	3.77	0.0050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Manganese, total	7439-96-5	0.00529	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Mercury, total	7439-97-6	<0.0050	0.0050	µg/L	E508/EO	08-Oct-2025	08-Oct-2025	2264691
Molybdenum, total	7439-98-7	0.000273	0.000050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Nickel, total	7440-02-0	0.00082	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Potassium, total	7440-09-7	0.973	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Rubidium, total	7440-17-7	0.00108	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Selenium, total	7782-49-2	0.076	0.050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Silicon, total	7440-21-3	1.35	0.10	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Silver, total	7440-22-4	<0.010	0.010	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Sodium, total	7440-23-5	3.90	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Strontium, total	7440-24-6	0.0778	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Sulfur, total	7704-34-9	2.61	0.50	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319



Analytical Results

FC2502917-002

Sub-Matrix:Water

(Matrix: Water)

Client sample ID: FCWTP-Raw Water Chamber

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Titanium, total	7440-32-6	0.00114	0.00030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Uranium, total	7440-61-1	0.067	0.010	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0086	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Arsenic, dissolved	7440-38-2	0.00042	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Barium, dissolved	7440-39-3	0.0238	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Boron, dissolved	7440-42-8	0.019	0.010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Calcium, dissolved	7440-70-2	11.8	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Chromium, dissolved	7440-47-3	<0.50	0.50	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Copper, dissolved	7440-50-8	0.00108	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Iron, dissolved	7439-89-6	0.020	0.010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Lithium, dissolved	7439-93-2	0.0032	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Magnesium, dissolved	7439-95-4	3.44	0.0050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Manganese, dissolved	7439-96-5	0.00084	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Molybdenum, dissolved	7439-98-7	0.000308	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Potassium, dissolved	7440-09-7	1.01	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Rubidium, dissolved	7440-17-7	0.00105	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Selenium, dissolved	7782-49-2	0.064	0.050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Silicon, dissolved	7440-21-3	1.16	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Sodium, dissolved	7440-23-5	4.22	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Strontium, dissolved	7440-24-6	0.0776	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Sulfur, dissolved	7704-34-9	2.18	0.50	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Uranium, dissolved	7440-61-1	0.060	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131



Analytical Results

FC2502917-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Raw Water Chamber

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Dissolved Metals								
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Zinc, dissolved	7440-66-6	0.0016	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	08-Oct-2025	2264131
Aggregate Organics								
Nitritotriacetic acid [NTA]	139-13-9	<0.40	0.40	mg/L	E394/WT	-	11-Oct-2025	2272326
Volatile Organic Compounds								
Benzene	71-43-2	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Carbon tetrachloride	56-23-5	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Chlorobenzene	108-90-7	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichlorobenzene, 1,4-	106-46-7	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichloroethane, 1,2-	107-06-2	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dioxane, 1,4-	123-91-1	<20	20	µg/L	E611I/WT	14-Oct-2025	14-Oct-2025	2274025
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Tetrachloroethylene	127-18-4	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Toluene	108-88-3	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Trichloroethylene	79-01-6	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Vinyl chloride	75-01-4	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	107	1.0	%	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Bromofluorobenzene, 4-	460-00-4	104	1.0	%	E611I/WT	14-Oct-2025	14-Oct-2025	2274025
Difluorobenzene, 1,4-	540-36-3	115	1.0	%	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611I/WT	14-Oct-2025	14-Oct-2025	2274025
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	102	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Naphthalene-d8	1146-65-2	91.1	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Phenanthrene-d10	1517-22-2	96.8	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Disinfectant By-Products								
Bromate	15541-45-4	<0.30	0.30	µg/L	E722A/WT	09-Oct-2025	09-Oct-2025	2268170
Chlorate	14866-68-3	<0.010	0.010	mg/L	E409.CLO3/WT	09-Oct-2025	09-Oct-2025	2268902
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	09-Oct-2025	09-Oct-2025	2268903
Semi-Volatile Organics								
Nitrosodimethylamine, N- [NDMA]	62-75-9	<0.00090	0.00090	µg/L	E725-T/WT	10-Oct-2025	10-Oct-2025	2269392
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	93.6	1.0	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Nitrobenzene-d5	4165-60-0	102	1.0	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Terphenyl-d14, p-	1718-51-0	181	1.0	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Chlorinated Phenolics								
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453



Analytical Results

FC2502917-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Raw Water Chamber

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Chlorinated Phenolics								
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Tetrachlorophenol, 2,3,4,6-	58-90-2	<0.50	0.50	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	96.7	0.50	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Organochlorine Pesticides Surrogates								
Decachlorobiphenyl	2051-24-3	77.0	0.10	%	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Tetrachloro-m-xylene	877-09-8	105	0.10	%	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Herbicides								
Alachlor	15972-60-8	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine	1912-24-9	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine + metabolites, total	----	<0.45	0.45	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine + N-dealkylated metabolites	----	<0.10	0.1	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine-desethyl	6190-65-4	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Cyanazine	21725-46-2	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Diclofop-methyl	51338-27-3	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Dinoseb	88-85-7	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Diuron	330-54-1	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Metolachlor	51218-45-2	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Metribuzin	21087-64-9	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Prometryn	7287-19-6	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Simazine	122-34-9	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Triallate	2303-17-5	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Trifluralin	1582-09-8	<0.10	0.10	µg/L	E756/WT	10-Oct-2025	17-Oct-2025	2269412
Herbicides Surrogates								
Dichlorophenylacetic acid, 2,4-	19719-28-9	99.1	1.0	%	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Insecticides								
Aldicarb	116-06-3	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Azinphos-methyl	86-50-0	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Bendiocarb	22781-23-3	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Carbaryl	63-25-2	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Carbofuran	1563-66-2	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Chlorpyrifos	2921-88-2	<0.10	0.10	µg/L	E756/WT	10-Oct-2025	17-Oct-2025	2269412
Diazinon	333-41-5	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Dimethoate	60-51-5	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Malathion	121-75-5	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Parathion	56-38-2	<0.10	0.10	µg/L	E756/WT	10-Oct-2025	17-Oct-2025	2269412
Phorate	298-02-2	<0.25	0.25	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Temephos	3383-96-8	<0.25	0.25	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Terbufos	13071-79-9	<0.50	0.50	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Pesticides								
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Aldrin	309-00-2	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Aldrin + Dieldrin	----	<0.011	0.011	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Bromoxynil	1689-84-5	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390



Analytical Results

FC2502917-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: FCWTP-Raw Water Chamber

Client sampling date / time: 06-Oct-2025 07:45

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Pesticides								
Chlordane, cis- (alpha)	5103-71-9	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Chlordane, total	57-74-9	<0.011	0.011	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Chlordane, trans- (gamma)	5103-74-2	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDD, 2,4'-	53-19-0	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDD, 4,4'-	72-54-8	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDD, total	----	<0.0060	0.006	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDE, 2,4'-	3424-82-6	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDE, 4,4'-	72-55-9	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDE, total	----	<0.0060	0.006	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT + metabolites, total	----	<0.010	0.01	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT, 2,4'-	789-02-6	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT, 4,4'-	50-29-3	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT, total	----	<0.0060	0.006	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Dicamba	1918-00-9	<0.10	0.10	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Dieldrin	60-57-1	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Diquat (ion)	2764-72-9	<1.0	1.0	µg/L	E723A/WT	10-Oct-2025	15-Oct-2025	2270391
Glyphosate	1071-83-6	<1.0	1.0	µg/L	E716A/WT	15-Oct-2025	16-Oct-2025	2276247
Heptachlor	76-44-8	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Heptachlor + Heptachlor epoxide	n/a	<0.011	0.011	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Heptachlor epoxide	1024-57-3	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Methoxychlor	72-43-5	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Oxychlordan	27304-13-8	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Paraquat (as dichloride)	1910-42-5	<1.0	1.0	µg/L	E723A/WT	10-Oct-2025	15-Oct-2025	2270391
Picloram	1918-02-1	<0.50 ^{DLM}	0.50	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Nitrosamines Surrogates								
Nitrosodimethylamine-d6, N-	17829-05-9	106	0.00090	%	E725-T/WT	10-Oct-2025	10-Oct-2025	2269392

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



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order : **FC2502915**
Client : **Regional Municipality of Wood Buffalo**
Contact : Water Treatment Plant
Address : 1 Silin Forest Road
Fort McMurray Alberta Canada T9H 5A1
Telephone : 780-762-5863
Project : FCWTP-SC4
PO : 4500061478
C-O-C number : ----
Sampler : EA
Site : ----
Quote number : FC24-RMWB100-0005 FC SC4
No. of samples received : 2
No. of samples analysed : 2

Laboratory : ALS Environmental - Fort McMurray
Account Manager : Megha Walia
Address : #4, 340 Macalpine Crescent
Fort McMurray AB Canada T9H 4A8
Telephone : +1 780 791 1524
Date Samples Received : 06-Oct-2025 15:40
Date Analysis Commenced : 07-Oct-2025
Issue Date : 21-Oct-2025 14:42

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
- Guideline Comparison

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>
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Sanja Risticevic	Department Manager - LCMS	LCMS, Waterloo, Ontario



No Breaches Found

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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key: LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
%	percent
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

>: greater than.

<: less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Workorder Comments

FC2502915-001 - RRQC/RRR; Surrogate recovery is outside of ALS control limits. Associated non-detect results are reliable.



Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
SP	Sample was preserved at the laboratory.



Analytical Results Evaluation

Matrix: Water

Matrix: Water				Client sample ID	R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re-check-8444) ----	----	----	----	----	----
				Client sampling date / time	06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
				Sub-Matrix	Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----	----
				Result	Result	----	----	----	----	----	----

Physical Tests

Alkalinity, bicarbonate (as HCO₃)	71-52-3	E290/EO	mg/L	61.7	----	----	----	----	----	----	----
Alkalinity, carbonate (as CO ₃)	3812-32-6	E290/EO	mg/L	<0.6	----	----	----	----	----	----	----
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	mg/L	<0.3	----	----	----	----	----	----	----
Alkalinity, total (as CaCO ₃)	----	E290/EO	mg/L	50.6	----	----	----	----	----	----	----
Colour, true	----	E329-L/EO	CU	<2.0	----	----	----	----	----	----	----
Conductivity	----	E100/EO	µS/cm	171	----	----	----	----	----	----	----
Hardness (as CaCO₃), dissolved	----	EC100/EO	mg/L	48.2	----	----	----	----	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/EO	mg/L	49.4	----	----	----	----	----	----	----
pH	----	E108/EO	pH units	7.81	----	----	----	----	----	----	----
Solids, total dissolved [TDS]	----	E162/EO	mg/L	94	----	----	----	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	mg/L	91.5	----	----	----	----	----	----	----

Anions and Nutrients

Ammonia, total (as N)	7664-41-7	E298/EO	mg/L	<0.0050 ^{SP}	----	----	----	----	----	----	----
Chloride	16887-00-6	E235.Cl/EO	mg/L	19.0	----	----	----	----	----	----	----
Fluoride	16984-48-8	E235.F/EO	mg/L	<0.020	----	----	----	----	----	----	----
Nitrate (as N)	14797-55-8	E235.NO ₃ /EO	mg/L	<0.020	----	----	----	----	----	----	----
Nitrate + Nitrite (as N)	----	EC235.N+N/E O	mg/L	<0.0224	----	----	----	----	----	----	----
Nitrite (as N)	14797-65-0	E235.NO ₂ /EO	mg/L	<0.010	----	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Anions and Nutrients										
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	mg/L	5.42	----	----	----	----	----	----
Cyanides										
Cyanide, strong acid dissociable (Total)	----	E333/WT	mg/L	<0.0020	----	----	----	----	----	----
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/CG	mg/L	2.46	----	----	----	----	----	----
Inorganics										
Chlorine, total	7782-50-5	E326-H/EO	mg/L	1.36	----	----	----	----	----	----
Chlorine, free	7782-50-5	E327-H/EO	mg/L	1.24	----	----	----	----	----	----
Chloramines, total (as Cl2)	----	EC326/EO	mg/L	<0.20	----	----	----	----	----	----
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/CG	mg/L	<0.0015	----	----	----	----	----	----
Sulfide, total (as H2S)	7783-06-4	E395/CG	mg/L	<0.0016	----	----	----	----	----	----
Ion Balance										
Ion balance (cations/anions)	----	EC101/EO	%	101	----	----	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/EO	mg/L	0.181	0.184	----	----	----	----	----
Antimony, total	7440-36-0	E420/EO	mg/L	<0.00010	<0.00010	----	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	mg/L	0.00043	0.00044	----	----	----	----	----
Barium, total	7440-39-3	E420/EO	mg/L	0.0348	0.0358	----	----	----	----	----
Boron, total	7440-42-8	E420/EO	mg/L	0.015	0.015	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Total Metals										
Cadmium, total	7440-43-9	E420/EO	µg/L	0.122	0.121	----	----	----	----	----
Calcium, total	7440-70-2	E420/EO	mg/L	13.5	13.1	----	----	----	----	----
Chromium, total	7440-47-3	E420/EO	mg/L	0.00111	0.00132	----	----	----	----	----
Copper, total	7440-50-8	E420/EO	mg/L	0.0730	0.0734	----	----	----	----	----
Iron, total	7439-89-6	E420/EO	mg/L	0.918	0.923	----	----	----	----	----
Lead, total	7439-92-1	E420/EO	µg/L	1.44	1.43	----	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	mg/L	3.80	3.76	----	----	----	----	----
Manganese, total	7439-96-5	E420/EO	mg/L	0.377	0.379	----	----	----	----	----
Mercury, total	7439-97-6	E508/EO	µg/L	<0.0050	----	----	----	----	----	----
Nickel, total	7440-02-0	E420/EO	mg/L	0.0115	0.0113	----	----	----	----	----
Selenium, total	7782-49-2	E420/EO	µg/L	<0.050	<0.050	----	----	----	----	----
Silver, total	7440-22-4	E420/EO	µg/L	0.034	0.035	----	----	----	----	----
Sodium, total	7440-23-5	E420/EO	mg/L	14.6	15.4	----	----	----	----	----
Strontium, total	7440-24-6	E420/EO	mg/L	0.0843	0.0855	----	----	----	----	----
Uranium, total	7440-61-1	E420/EO	µg/L	0.043	0.041	----	----	----	----	----
Zinc, total	7440-66-6	E420/EO	mg/L	0.0321	0.0337	----	----	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	mg/L	0.0119	----	----	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	mg/L	<0.00010	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Dissolved Metals										
Arsenic, dissolved	7440-38-2	E421/EO	mg/L	0.00032	----	----	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	mg/L	0.0246	----	----	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	µg/L	<0.020	----	----	----	----	----	----
Bismuth, dissolved	7440-69-9	E421/EO	µg/L	<0.050	----	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/EO	mg/L	0.028	----	----	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	µg/L	<0.0050	----	----	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	mg/L	13.4	----	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	µg/L	<0.010	----	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	µg/L	<0.50	----	----	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	mg/L	<0.00010	----	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/EO	mg/L	0.00566	----	----	----	----	----	----
Iron, dissolved	7439-89-6	E421/EO	mg/L	<0.010	----	----	----	----	----	----
Lead, dissolved	7439-92-1	E421/EO	µg/L	<0.050	----	----	----	----	----	----
Lithium, dissolved	7439-93-2	E421/EO	mg/L	0.0034	----	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	mg/L	3.57	----	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	mg/L	0.00037	----	----	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	mg/L	0.000258	----	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	mg/L	<0.00050	----	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	mg/L	<0.050	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Dissolved Metals										
Potassium, dissolved	7440-09-7	E421/EO	mg/L	1.05	----	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	mg/L	0.00111	----	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	µg/L	<0.050	----	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	mg/L	1.02	----	----	----	----	----	----
Silver, dissolved	7440-22-4	E421/EO	µg/L	<0.010	----	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	mg/L	15.9	----	----	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	mg/L	0.0794	----	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	mg/L	2.26	----	----	----	----	----	----
Tellurium, dissolved	13494-80-9	E421/EO	mg/L	<0.00020	----	----	----	----	----	----
Thallium, dissolved	7440-28-0	E421/EO	µg/L	<0.010	----	----	----	----	----	----
Thorium, dissolved	7440-29-1	E421/EO	mg/L	<0.00010	----	----	----	----	----	----
Tin, dissolved	7440-31-5	E421/EO	mg/L	<0.00010	----	----	----	----	----	----
Titanium, dissolved	7440-32-6	E421/EO	mg/L	<0.00030	----	----	----	----	----	----
Tungsten, dissolved	7440-33-7	E421/EO	mg/L	<0.00010	----	----	----	----	----	----
Uranium, dissolved	7440-61-1	E421/EO	µg/L	<0.010	----	----	----	----	----	----
Vanadium, dissolved	7440-62-2	E421/EO	mg/L	<0.00050	----	----	----	----	----	----
Zinc, dissolved	7440-66-6	E421/EO	mg/L	0.0034	----	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	mg/L	<0.00020	----	----	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	Field	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Aggregate Organics										
Nitritotriacetic acid [NTA]	139-13-9	E394/WT	mg/L	<0.40	----	----	----	----	----	----
Volatile Organic Compounds										
Benzene	71-43-2	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Carbon tetrachloride	56-23-5	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Chlorobenzene	108-90-7	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dichloromethane	75-09-2	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Dioxane, 1,4-	123-91-1	E611I/WT	µg/L	<20	----	----	----	----	----	----
Ethylbenzene	100-41-4	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Toluene	108-88-3	E611E/EO	µg/L	<0.50	----	----	----	----	----	----
Trichloroethylene	79-01-6	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Vinyl chloride	75-01-4	E611E/EO	µg/L	<1.0	----	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611E/EO	µg/L	<0.40	----	----	----	----	----	----
Xylene, o-	95-47-6	E611E/EO	µg/L	<0.30	----	----	----	----	----	----
Xylenes, total	1330-20-7	E611E/EO	µg/L	<0.50	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611I/WT	%	104	----	----	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611E/EO	%	112	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611I/WT	%	101	----	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611E/EO	%	110	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Benzo(a)pyrene	50-32-8	E641A/EO	µg/L	<0.0050	----	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/EO	%	99.4	----	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	%	93.0	----	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	%	96.5	----	----	----	----	----	----
Disinfectant By-Products										
Bromate	15541-45-4	E722A/WT	µg/L	<0.30	----	----	----	----	----	----
Chlorate	14866-68-3	E409.CLO3/W T	mg/L	0.064	----	----	----	----	----	----
Chlorite	14998-27-7	E409.CLO2/W T	mg/L	<0.010	----	----	----	----	----	----
Semi-Volatile Organics										
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725-T/WT	µg/L	<0.00090	----	----	----	----	----	----
Semi-Volatile Organics Surrogates										
Fluorobiphenyl, 2-	321-60-8	E625A/WT	%	97.4	----	----	----	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	%	95.7	----	----	----	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	%	179 ^{RRR}	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Chlorinated Phenolics										
Dichlorophenol, 2,4-	120-83-2	E625A/WT	µg/L	<0.20	----	----	----	----	----	----
Pentachlorophenol [PCP]	87-86-5	E625A/WT	µg/L	<0.50	----	----	----	----	----	----
Tetrachlorophenol, 2,3,4,6-	58-90-2	E625A/WT	µg/L	<0.50	----	----	----	----	----	----
Trichlorophenol, 2,4,6-	88-06-2	E625A/WT	µg/L	<0.20	----	----	----	----	----	----
Phenolics Surrogates										
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	%	96.2	----	----	----	----	----	----
Organochlorine Pesticides Surrogates										
Decachlorobiphenyl	2051-24-3	E660F/WT	%	88.8	----	----	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	%	96.0	----	----	----	----	----	----
Herbicides										
Alachlor	15972-60-8	E755/WT	µg/L	<0.050	----	----	----	----	----	----
Atrazine	1912-24-9	E755/WT	µg/L	<0.050	----	----	----	----	----	----
Atrazine + metabolites, total	----	E755/WT	µg/L	<0.45	----	----	----	----	----	----
Atrazine + N-dealkylated metabolites	----	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Atrazine-desethyl	6190-65-4	E755/WT	µg/L	<0.025	----	----	----	----	----	----
Cyanazine	21725-46-2	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Diclofop-methyl	51338-27-3	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Dinoseb	88-85-7	E706A/WT	µg/L	<0.050	----	----	----	----	----	----
Diuron	330-54-1	E755/WT	µg/L	<0.050	----	----	----	----	----	----
Metolachlor	51218-45-2	E755/WT	µg/L	<0.025	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Herbicides										
Metribuzin	21087-64-9	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Prometryn	7287-19-6	E755/WT	µg/L	<0.025	----	----	----	----	----	----
Simazine	122-34-9	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Triallate	2303-17-5	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Trifluralin	1582-09-8	E756/WT	µg/L	<0.10	----	----	----	----	----	----
Herbicides Surrogates										
Dichlorophenylacetic acid, 2,4-	19719-28-9	E706A/WT	%	106	----	----	----	----	----	----
Insecticides										
Aldicarb	116-06-3	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Azinphos-methyl	86-50-0	E755/WT	µg/L	<0.10	----	----	----	----	----	----
Bendiocarb	22781-23-3	E755/WT	µg/L	<0.025	----	----	----	----	----	----
Carbaryl	63-25-2	E755/WT	µg/L	<0.050	----	----	----	----	----	----
Carbofuran	1563-66-2	E755/WT	µg/L	<0.025	----	----	----	----	----	----
Chlorpyrifos	2921-88-2	E756/WT	µg/L	<0.10	----	----	----	----	----	----
Diazinon	333-41-5	E755/WT	µg/L	<0.025	----	----	----	----	----	----
Dimethoate	60-51-5	E755/WT	µg/L	<0.050	----	----	----	----	----	----
Malathion	121-75-5	E755/WT	µg/L	<0.025	----	----	----	----	----	----
Parathion	56-38-2	E756/WT	µg/L	<0.10	----	----	----	----	----	----
Phorate	298-02-2	E755/WT	µg/L	<0.25	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Insecticides										
Temephos	3383-96-8	E755/WT	µg/L	<0.25	----	----	----	----	----	----
Terbufos	13071-79-9	E755/WT	µg/L	<0.50	----	----	----	----	----	----
Pesticides										
Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA]	94-74-6	E706A/WT	µg/L	<0.050	----	----	----	----	----	----
Aldrin	309-00-2	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Aldrin + Dieldrin	----	E660F/WT	µg/L	<0.011	----	----	----	----	----	----
Bromoxynil	1689-84-5	E706A/WT	µg/L	<0.050	----	----	----	----	----	----
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Chlordane, total	57-74-9	E660F/WT	µg/L	<0.011	----	----	----	----	----	----
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
DDD, 2,4'-	53-19-0	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----
DDD, 4,4'-	72-54-8	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----
DDD, total	----	E660F/WT	µg/L	<0.0060	----	----	----	----	----	----
DDE, 2,4'-	3424-82-6	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----
DDE, 4,4'-	72-55-9	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----
DDE, total	----	E660F/WT	µg/L	<0.0060	----	----	----	----	----	----
DDT + metabolites, total	----	E660F/WT	µg/L	<0.010	----	----	----	----	----	----
DDT, 2,4'-	789-02-6	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----
DDT, 4,4'-	50-29-3	E660F/WT	µg/L	<0.0040	----	----	----	----	----	----



Matrix: Water

Client sample ID				R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----	----	----
Client sampling date / time				06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----	----
Sub-Matrix				Water	Water	----	----	----	----	----
Analyte	CAS Number	Method/Lab	Unit	FC2502915-001	FC2502915-002	----	----	----	----	----
				Result	Result	----	----	----	----	----
Pesticides										
DDT, total	----	E660F/WT	µg/L	<0.0060	----	----	----	----	----	----
Dicamba	1918-00-9	E706A/WT	µg/L	<0.10	----	----	----	----	----	----
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	E706A/WT	µg/L	<0.050	----	----	----	----	----	----
Dieldrin	60-57-1	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Diquat (ion)	2764-72-9	E723A/WT	µg/L	<1.0	----	----	----	----	----	----
Glyphosate	1071-83-6	E716A/WT	µg/L	<1.0	----	----	----	----	----	----
Heptachlor	76-44-8	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Heptachlor + Heptachlor epoxide	n/a	E660F/WT	µg/L	<0.011	----	----	----	----	----	----
Heptachlor epoxide	1024-57-3	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Methoxychlor	72-43-5	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Oxychlordan	27304-13-8	E660F/WT	µg/L	<0.0080	----	----	----	----	----	----
Paraquat (as dichloride)	1910-42-5	E723A/WT	µg/L	<1.0	----	----	----	----	----	----
Picloram	1918-02-1	E706A/WT	µg/L	<0.50 ^{DLM}	----	----	----	----	----	----
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	E706A/WT	µg/L	<0.050	----	----	----	----	----	----
Nitrosamines Surrogates										
Nitrosodimethylamine-d6, N-	17829-05-9	E725-T/WT	%	106	----	----	----	----	----	----

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



Summary of Guideline Limits

CERTIFICATE OF ANALYSIS

Work Order	: FC2502915	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Megha Walia
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	: Megha.Walia@alsglobal.com
Project	: FCWTP-SC4	Telephone	: +1 780 791 1524
PO	: 4500061478	Date Samples Received	: 06-Oct-2025 15:40
C-O-C number	: ----	Date Analysis Commenced	: 07-Oct-2025
Sampler	: EA	Issue Date	: 21-Oct-2025 14:44
Site	: ----		
Quote number	: FC24-RMWB100-0005 FC SC4		
No. of samples received	: 2		
No. of samples analysed	: 2		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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



Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Sanja Risticevic	Department Manager - LCMS	LCMS, Waterloo, Ontario



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
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH 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.

Workorder Comments

FC2502915-001 - RRQC/RRR; Surrogate recovery is outside of ALS control limits. Associated non-detect results are reliable.



Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
SP	Sample was preserved at the laboratory.



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID

					R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re-check-8444) ----	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----
					Result	Result	----	----	----
Physical Tests									
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	E290/EO	1.2	mg/L	61.7	----	----	----	----
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	50.6	----	----	----	----
Colour, true	----	E329-L/EO	2.0	CU	<2.0	----	----	----	----
Conductivity	----	E100/EO	1.0	µS/cm	171	----	----	----	----
Hardness (as CaCO ₃), dissolved	----	EC100/EO	0.50	mg/L	48.2	----	----	----	----
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/EO	0.50	mg/L	49.4	----	----	----	----
pH	----	E108/EO	0.10	pH units	7.81	----	----	----	----
Solids, total dissolved [TDS]	----	E162/EO	10	mg/L	94	----	----	----	----
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	91.5	----	----	----	----
Anions and Nutrients									
Ammonia, total (as N)	7664-41-7	E298/EO	0.0050	mg/L	<0.0050 ^{SP}	----	----	----	----
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	19.0	----	----	----	----
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	<0.0224	----	----	----	----
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	5.42	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Cyanides										
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0020	mg/L	<0.0020	----	----	----	----	----
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/CG	0.50	mg/L	2.46	----	----	----	----	----
Inorganics										
Chlorine, total	7782-50-5	E326-H/EO	0.10	mg/L	1.36	----	----	----	----	----
Chlorine, free	7782-50-5	E327-H/EO	0.10	mg/L	1.24	----	----	----	----	----
Chloramines, total (as Cl ₂)	----	EC326/EO	0.20	mg/L	<0.20	----	----	----	----	----
Total Sulfides										
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	----	----	----	----	----
Sulfide, total (as H ₂ S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	----	----	----	----	----
Ion Balance										
Ion balance (cations/anions)	----	EC101/EO	0.010	%	101	----	----	----	----	----
Total Metals										
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.181	0.184	----	----	----	----
Antimony, total	7440-36-0	E420/EO	0.00010	mg/L	<0.00010	<0.00010	----	----	----	----
Arsenic, total	7440-38-2	E420/EO	0.00010	mg/L	0.00043	0.00044	----	----	----	----
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0348	0.0358	----	----	----	----
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.015	0.015	----	----	----	----
Cadmium, total	7440-43-9	E420/EO	0.0050	µg/L	0.122	0.121	----	----	----	----
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	13.5	13.1	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re- check-8444) ----	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Total Metals										
Chromium, total	7440-47-3	E420/EO	0.00050	mg/L	0.00111	0.00132	----	----	----	----
Copper, total	7440-50-8	E420/EO	0.00050	mg/L	0.0730	0.0734	----	----	----	----
Iron, total	7439-89-6	E420/EO	0.010	mg/L	0.918	0.923	----	----	----	----
Lead, total	7439-92-1	E420/EO	0.050	µg/L	1.44	1.43	----	----	----	----
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	3.80	3.76	----	----	----	----
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.377	0.379	----	----	----	----
Mercury, total	7439-97-6	E508/EO	0.0050	µg/L	<0.0050	----	----	----	----	----
Nickel, total	7440-02-0	E420/EO	0.00050	mg/L	0.0115	0.0113	----	----	----	----
Selenium, total	7782-49-2	E420/EO	0.050	µg/L	<0.050	<0.050	----	----	----	----
Silver, total	7440-22-4	E420/EO	0.010	µg/L	0.034	0.035	----	----	----	----
Sodium, total	7440-23-5	E420/EO	0.050	mg/L	14.6	15.4	----	----	----	----
Strontium, total	7440-24-6	E420/EO	0.00020	mg/L	0.0843	0.0855	----	----	----	----
Uranium, total	7440-61-1	E420/EO	0.010	µg/L	0.043	0.041	----	----	----	----
Zinc, total	7440-66-6	E420/EO	0.0030	mg/L	0.0321	0.0337	----	----	----	----
Dissolved Metals										
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0119	----	----	----	----	----
Antimony, dissolved	7440-36-0	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Arsenic, dissolved	7440-38-2	E421/EO	0.00010	mg/L	0.00032	----	----	----	----	----
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0246	----	----	----	----	----
Beryllium, dissolved	7440-41-7	E421/EO	0.020	µg/L	<0.020	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re- check-8444) ----	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Dissolved Metals										
Bismuth, dissolved	7440-69-9	E421/EO	0.050	µg/L	<0.050	----	----	----	----	----
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.028	----	----	----	----	----
Cadmium, dissolved	7440-43-9	E421/EO	0.0050	µg/L	<0.0050	----	----	----	----	----
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	13.4	----	----	----	----	----
Cesium, dissolved	7440-46-2	E421/EO	0.010	µg/L	<0.010	----	----	----	----	----
Chromium, dissolved	7440-47-3	E421/EO	0.50	µg/L	<0.50	----	----	----	----	----
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	----	----	----	----	----
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00566	----	----	----	----	----
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	0.0034	----	----	----	----	----
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	3.57	----	----	----	----	----
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00037	----	----	----	----	----
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L	0.000258	----	----	----	----	----
Nickel, dissolved	7440-02-0	E421/EO	0.00050	mg/L	<0.00050	----	----	----	----	----
Phosphorus, dissolved	7723-14-0	E421/EO	0.050	mg/L	<0.050	----	----	----	----	----
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	1.05	----	----	----	----	----
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00111	----	----	----	----	----
Selenium, dissolved	7782-49-2	E421/EO	0.050	µg/L	<0.050	----	----	----	----	----
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	1.02	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re-check-8444) ----	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Dissolved Metals										
Silver, dissolved	7440-22-4	E421/EO	0.010	µg/L	<0.010	----	----	----	----	----
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	15.9	----	----	----	----	----
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0794	----	----	----	----	----
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	2.26	----	----	----	----	----
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	0.0034	----	----	----	----	----
Zirconium, dissolved	7440-67-7	E421/EO	0.00020	mg/L	<0.00020	----	----	----	----	----
Dissolved metals filtration location	----	EP421/EO	-	-	Field	----	----	----	----	----
Aggregate Organics										
Nitrilotriacetic acid [NTA]	139-13-9	E394/WT	0.40	mg/L	<0.40	----	----	----	----	----
Volatile Organic Compounds										
Benzene	71-43-2	E611E/EO	0.50	µg/L	<0.50	----	----	----	----	----
Carbon tetrachloride	56-23-5	E611E/EO	0.50	µg/L	<0.50	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re-check-8444) ----	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Volatile Organic Compounds										
Chlorobenzene	108-90-7	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Dichlorobenzene, 1,2-	95-50-1	E611E/EO	0.50	µg/L	<0.50	----	----	----	----	----
Dichlorobenzene, 1,4-	106-46-7	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Dichloroethane, 1,2-	107-06-2	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Dichloromethane	75-09-2	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Dioxane, 1,4-	123-91-1	E611I/WT	20	µg/L	<20	----	----	----	----	----
Ethylbenzene	100-41-4	E611E/EO	0.50	µg/L	<0.50	----	----	----	----	----
Tetrachloroethylene	127-18-4	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Toluene	108-88-3	E611E/EO	0.50	µg/L	<0.50	----	----	----	----	----
Trichloroethylene	79-01-6	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Vinyl chloride	75-01-4	E611E/EO	1.0	µg/L	<1.0	----	----	----	----	----
Xylene, m+p-	179601-23-1	E611E/EO	0.40	µg/L	<0.40	----	----	----	----	----
Xylene, o-	95-47-6	E611E/EO	0.30	µg/L	<0.30	----	----	----	----	----
Xylenes, total	1330-20-7	E611E/EO	0.50	µg/L	<0.50	----	----	----	----	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611I/WT	1.0	%	104	----	----	----	----	----
Bromofluorobenzene, 4-	460-00-4	E611E/EO	1.0	%	112	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611I/WT	1.0	%	101	----	----	----	----	----
Difluorobenzene, 1,4-	540-36-3	E611E/EO	1.0	%	110	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Polycyclic Aromatic Hydrocarbons										
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L	<0.0050	----	----	----	----	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/EO	0.1	%	99.4	----	----	----	----	----
Naphthalene-d8	1146-65-2	E641A/EO	0.1	%	93.0	----	----	----	----	----
Phenanthrene-d10	1517-22-2	E641A/EO	0.1	%	96.5	----	----	----	----	----
Disinfectant By-Products										
Bromate	15541-45-4	E722A/WT	0.30	µg/L	<0.30	----	----	----	----	----
Chlorate	14866-68-3	E409.CLO3/WT	0.010	mg/L	0.064	----	----	----	----	----
Chlorite	14998-27-7	E409.CLO2/WT	0.010	mg/L	<0.010	----	----	----	----	----
Semi-Volatile Organics										
Nitrosodimethylamine, N- [NDMA]	62-75-9	E725-T/WT	0.00090	µg/L	<0.00090	----	----	----	----	----
Semi-Volatile Organics Surrogates										
Fluorobiphenyl, 2-	321-60-8	E625A/WT	1.0	%	97.4	----	----	----	----	----
Nitrobenzene-d5	4165-60-0	E625A/WT	1.0	%	95.7	----	----	----	----	----
Terphenyl-d14, p-	1718-51-0	E625A/WT	1.0	%	179 ^{RRR}	----	----	----	----	----
Chlorinated Phenolics										
Dichlorophenol, 2,4-	120-83-2	E625A/WT	0.20	µg/L	<0.20	----	----	----	----	----
Pentachlorophenol [PCP]	87-86-5	E625A/WT	0.50	µg/L	<0.50	----	----	----	----	----
Tetrachlorophenol, 2,3,4,6-	58-90-2	E625A/WT	0.50	µg/L	<0.50	----	----	----	----	----
Trichlorophenol, 2,4,6-	88-06-2	E625A/WT	0.20	µg/L	<0.20	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----
					Result	Result	----	----	----
Phenolics Surrogates									
Tribromophenol, 2,4,6-	118-79-6	E625A/WT	0.50	%	96.2	----	----	----	----
Organochlorine Pesticides Surrogates									
Decachlorobiphenyl	2051-24-3	E660F/WT	0.10	%	88.8	----	----	----	----
Tetrachloro-m-xylene	877-09-8	E660F/WT	0.10	%	96.0	----	----	----	----
Herbicides									
Alachlor	15972-60-8	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Atrazine	1912-24-9	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Atrazine + metabolites, total	----	E755/WT	0.45	µg/L	<0.45	----	----	----	----
Atrazine + N-dealkylated metabolites	----	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Atrazine-desethyl	6190-65-4	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Cyanazine	21725-46-2	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Diclofop-methyl	51338-27-3	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Dinoseb	88-85-7	E706A/WT	0.050	µg/L	<0.050	----	----	----	----
Diuron	330-54-1	E755/WT	0.050	µg/L	<0.050	----	----	----	----
Metolachlor	51218-45-2	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Metribuzin	21087-64-9	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Prometryn	7287-19-6	E755/WT	0.025	µg/L	<0.025	----	----	----	----
Simazine	122-34-9	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Triallate	2303-17-5	E755/WT	0.10	µg/L	<0.10	----	----	----	----
Trifluralin	1582-09-8	E756/WT	0.10	µg/L	<0.10	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Herbicides Surrogates										
Dichlorophenylacetic acid, 2,4-	19719-28-9	E706A/WT	1.0	%	106	----	----	----	----	----
Insecticides										
Aldicarb	116-06-3	E755/WT	0.10	µg/L	<0.10	----	----	----	----	----
Azinphos-methyl	86-50-0	E755/WT	0.10	µg/L	<0.10	----	----	----	----	----
Bendiocarb	22781-23-3	E755/WT	0.025	µg/L	<0.025	----	----	----	----	----
Carbaryl	63-25-2	E755/WT	0.050	µg/L	<0.050	----	----	----	----	----
Carbofuran	1563-66-2	E755/WT	0.025	µg/L	<0.025	----	----	----	----	----
Chlorpyrifos	2921-88-2	E756/WT	0.10	µg/L	<0.10	----	----	----	----	----
Diazinon	333-41-5	E755/WT	0.025	µg/L	<0.025	----	----	----	----	----
Dimethoate	60-51-5	E755/WT	0.050	µg/L	<0.050	----	----	----	----	----
Malathion	121-75-5	E755/WT	0.025	µg/L	<0.025	----	----	----	----	----
Parathion	56-38-2	E756/WT	0.10	µg/L	<0.10	----	----	----	----	----
Phorate	298-02-2	E755/WT	0.25	µg/L	<0.25	----	----	----	----	----
Temephos	3383-96-8	E755/WT	0.25	µg/L	<0.25	----	----	----	----	----
Terbufos	13071-79-9	E755/WT	0.50	µg/L	<0.50	----	----	----	----	----
Pesticides										
Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA]	94-74-6	E706A/WT	0.050	µg/L	<0.050	----	----	----	----	----
Aldrin	309-00-2	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Aldrin + Dieldrin	----	E660F/WT	0.011	µg/L	<0.011	----	----	----	----	----
Bromoxynil	1689-84-5	E706A/WT	0.050	µg/L	<0.050	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan ----	R1-9150030-Fort Chipewyan (Re-check-8444) ----	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Pesticides										
Chlordane, cis- (alpha)	5103-71-9	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Chlordane, total	57-74-9	E660F/WT	0.011	µg/L	<0.011	----	----	----	----	----
Chlordane, trans- (gamma)	5103-74-2	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
DDD, 2,4'-	53-19-0	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----	----
DDD, 4,4'-	72-54-8	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----	----
DDD, total	----	E660F/WT	0.0060	µg/L	<0.0060	----	----	----	----	----
DDE, 2,4'-	3424-82-6	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----	----
DDE, 4,4'-	72-55-9	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----	----
DDE, total	----	E660F/WT	0.0060	µg/L	<0.0060	----	----	----	----	----
DDT + metabolites, total	----	E660F/WT	0.010	µg/L	<0.010	----	----	----	----	----
DDT, 2,4'-	789-02-6	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----	----
DDT, 4,4'-	50-29-3	E660F/WT	0.0040	µg/L	<0.0040	----	----	----	----	----
DDT, total	----	E660F/WT	0.0060	µg/L	<0.0060	----	----	----	----	----
Dicamba	1918-00-9	E706A/WT	0.10	µg/L	<0.10	----	----	----	----	----
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	E706A/WT	0.050	µg/L	<0.050	----	----	----	----	----
Dieldrin	60-57-1	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Diquat (ion)	2764-72-9	E723A/WT	1.0	µg/L	<1.0	----	----	----	----	----
Glyphosate	1071-83-6	E716A/WT	1.0	µg/L	<1.0	----	----	----	----	----
Heptachlor	76-44-8	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Heptachlor + Heptachlor epoxide	n/a	E660F/WT	0.011	µg/L	<0.011	----	----	----	----	----



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	R1-9150030-Fort Chipewyan	R1-9150030-Fort Chipewyan (Re-check-8444)	----	----	----
Client sampling date / time					06-Oct-2025 06:30	06-Oct-2025 06:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2502915-001	FC2502915-002	----	----	----	----
					Result	Result	----	----	----	----
Pesticides										
Heptachlor epoxide	1024-57-3	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Methoxychlor	72-43-5	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Oxychlorane	27304-13-8	E660F/WT	0.0080	µg/L	<0.0080	----	----	----	----	----
Paraquat (as dichloride)	1910-42-5	E723A/WT	1.0	µg/L	<1.0	----	----	----	----	----
Picloram	1918-02-1	E706A/WT	0.10	µg/L	<0.50 ^{DLM}	----	----	----	----	----
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	E706A/WT	0.050	µg/L	<0.050	----	----	----	----	----
Nitrosamines Surrogates										
Nitrosodimethylamine-d6, N-	17829-05-9	E725-T/WT	0.00090	%	106	----	----	----	----	----

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2502915	Page	: 1 of 8
Client	: Regional Municipality of Wood Buffalo	Laboratory	: ALS Environmental - Fort McMurray
Contact	: Water Treatment Plant	Account Manager	: Megha Walia
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	: FCWTP-SC4	Date Samples Received	: 06-Oct-2025 15:40
PO	: 4500061478	Date Analysis	: 07-Oct-2025
		Commenced	
		Issue Date	: 21-Oct-2025 14:41
C-O-C number	: ----		
Sampler	: EA		
Site	: ----		
Quote number	: FC24-RMWB100-0005 FC SC4		
No. of samples received	: 2		
No. of samples analysed	: 2		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Alannah Barron	Laboratory Analyst	Metals, Edmonton, Alberta
Alastair McGibbon	Laboratory Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Brayden Ginther	Laboratory Analyst	Inorganics, Edmonton, Alberta
Catherine DeMone	Laboratory Analyst	LCMS, Waterloo, Ontario
Dan Nguyen	Team Leader - Inorganics	Metals, Edmonton, Alberta
Danielle Gravel	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
David Tremblett	VOC Section Supervisor	VOC, Waterloo, Ontario
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Hannah Lewis	Inorganics Analyst	Inorganics, Waterloo, Ontario
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Jing Liu	Laboratory Analyst	Inorganics, Edmonton, Alberta
John Tang	Lab Analyst	Inorganics, Waterloo, Ontario
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Leah Yee	Lab Assistant	Inorganics, Edmonton, Alberta
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Parth Goswami	Team Leader - LCMS	LCMS, Waterloo, Ontario
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Metals, Edmonton, Alberta
Sanja Risticovic	Department Manager - LCMS	LCMS, Waterloo, Ontario



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
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
pH units	pH 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.

Workorder Comments

FC2502915-001 - RRQC/RRR; Surrogate recovery is outside of ALS control limits. Associated non-detect results are reliable.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
RRR	Refer to report comments for issues regarding this analysis.
SP	Sample was preserved at the laboratory.



Analytical Results

FC2502915-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	61.7	1.2	mg/L	E290/EO	08-Oct-2025	08-Oct-2025	2265496
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	08-Oct-2025	08-Oct-2025	2265496
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	08-Oct-2025	08-Oct-2025	2265496
Alkalinity, total (as CaCO ₃)	----	50.6	1.0	mg/L	E290/EO	08-Oct-2025	08-Oct-2025	2265496
Colour, true	----	<2.0	2.0	CU	E329-L/EO	08-Oct-2025	08-Oct-2025	2265958
Conductivity	----	171	1.0	µS/cm	E100/EO	08-Oct-2025	08-Oct-2025	2265495
Hardness (as CaCO ₃), dissolved	----	48.2	0.50	mg/L	EC100/EO	-	09-Oct-2025	-
Hardness (as CaCO ₃), from total Ca/Mg	----	49.4	0.50	mg/L	EC100A/EO	-	09-Oct-2025	-
pH	----	7.81	0.10	pH units	E108/EO	08-Oct-2025	08-Oct-2025	2265494
Solids, total dissolved [TDS]	----	94	13	mg/L	E162/EO	-	08-Oct-2025	2264420
Solids, total dissolved [TDS], calculated	----	91.5	1.0	mg/L	EC103/EO	-	07-Oct-2025	-
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	<0.0050 ^{SP}	0.0050	mg/L	E298/EO	08-Oct-2025	09-Oct-2025	2264941
Chloride	16887-00-6	19.0	0.50	mg/L	E235.Cl/EO	07-Oct-2025	07-Oct-2025	2263028
Fluoride	16984-48-8	<0.020	0.020	mg/L	E235.F/EO	07-Oct-2025	07-Oct-2025	2263025
Nitrate (as N)	14797-55-8	<0.020	0.020	mg/L	E235.NO3/EO	07-Oct-2025	07-Oct-2025	2263026
Nitrate + Nitrite (as N)	----	<0.0224	0.0224	mg/L	EC235.N+N/EO	-	07-Oct-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO2/EO	07-Oct-2025	07-Oct-2025	2263027
Sulfate (as SO ₄)	14808-79-8	5.42	0.30	mg/L	E235.SO4/EO	07-Oct-2025	07-Oct-2025	2263029
Cyanides								
Cyanide, strong acid dissociable (Total)	----	<0.0020	0.0020	mg/L	E333/WT	09-Oct-2025	09-Oct-2025	2267474
Organic / Inorganic Carbon								
Carbon, total organic [TOC]	----	2.46	0.50	mg/L	E355-L/CG	08-Oct-2025	10-Oct-2025	2266034
Inorganics								
Chlorine, total	7782-50-5	1.36	0.10	mg/L	E326-H/EO	-	07-Oct-2025	2263383
Chlorine, free	7782-50-5	1.24	0.10	mg/L	E327-H/EO	-	07-Oct-2025	2262681
Chloramines, total (as Cl ₂)	----	<0.20	0.20	mg/L	EC326/EO	-	08-Oct-2025	-
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	08-Oct-2025	2264462
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	08-Oct-2025	2264462
Ion Balance								
Ion balance (cations/anions)	----	101	0.010	%	EC101/EO	-	07-Oct-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.181	0.0030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Arsenic, total	7440-38-2	0.00043	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Barium, total	7440-39-3	0.0348	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Boron, total	7440-42-8	0.015	0.010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Cadmium, total	7440-43-9	0.122	0.0050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Calcium, total	7440-70-2	13.5	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Chromium, total	7440-47-3	0.00111	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Copper, total	7440-50-8	0.0730	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Iron, total	7439-89-6	0.918	0.010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Lead, total	7439-92-1	1.44	0.050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Magnesium, total	7439-95-4	3.80	0.0050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319



Analytical Results

FC2502915-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Manganese, total	7439-96-5	0.377	0.00010	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Mercury, total	7439-97-6	<0.0050	0.0050	µg/L	E508/EO	08-Oct-2025	08-Oct-2025	2264691
Nickel, total	7440-02-0	0.0115	0.00050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Selenium, total	7782-49-2	<0.050	0.050	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Silver, total	7440-22-4	0.034	0.010	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Sodium, total	7440-23-5	14.6	0.050	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Strontium, total	7440-24-6	0.0843	0.00020	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Uranium, total	7440-61-1	0.043	0.010	µg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Zinc, total	7440-66-6	0.0321	0.0030	mg/L	E420/EO	08-Oct-2025	08-Oct-2025	2263319
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0119	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Arsenic, dissolved	7440-38-2	0.00032	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Barium, dissolved	7440-39-3	0.0246	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Beryllium, dissolved	7440-41-7	<0.020	0.020	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Bismuth, dissolved	7440-69-9	<0.050	0.050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Boron, dissolved	7440-42-8	0.028	0.010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cadmium, dissolved	7440-43-9	<0.0050	0.0050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Calcium, dissolved	7440-70-2	13.4	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cesium, dissolved	7440-46-2	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Chromium, dissolved	7440-47-3	<0.50	0.50	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Copper, dissolved	7440-50-8	0.00566	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Lead, dissolved	7439-92-1	<0.050	0.050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Lithium, dissolved	7439-93-2	0.0034	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Magnesium, dissolved	7439-95-4	3.57	0.0050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Manganese, dissolved	7439-96-5	0.00037	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Molybdenum, dissolved	7439-98-7	0.000258	0.000050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Potassium, dissolved	7440-09-7	1.05	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Rubidium, dissolved	7440-17-7	0.00111	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Selenium, dissolved	7782-49-2	<0.050	0.050	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Silicon, dissolved	7440-21-3	1.02	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Silver, dissolved	7440-22-4	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Sodium, dissolved	7440-23-5	15.9	0.050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Strontium, dissolved	7440-24-6	0.0794	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Sulfur, dissolved	7704-34-9	2.26	0.50	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Thallium, dissolved	7440-28-0	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131



Analytical Results

FC2502915-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Dissolved Metals								
Uranium, dissolved	7440-61-1	<0.010	0.010	µg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Zinc, dissolved	7440-66-6	0.0034	0.0010	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	08-Oct-2025	08-Oct-2025	2264131
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	08-Oct-2025	2264131
Aggregate Organics								
Nitritotriacetic acid [NTA]	139-13-9	<0.40	0.40	mg/L	E394/WT	-	11-Oct-2025	2272326
Volatile Organic Compounds								
Benzene	71-43-2	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Carbon tetrachloride	56-23-5	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Chlorobenzene	108-90-7	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichlorobenzene, 1,2-	95-50-1	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichlorobenzene, 1,4-	106-46-7	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichloroethane, 1,2-	107-06-2	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dichloromethane	75-09-2	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Dioxane, 1,4-	123-91-1	<20	20	µg/L	E611I/WT	14-Oct-2025	14-Oct-2025	2274025
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Tetrachloroethylene	127-18-4	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Toluene	108-88-3	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Trichloroethylene	79-01-6	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Vinyl chloride	75-01-4	<1.0	1.0	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	112	1.0	%	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Bromofluorobenzene, 4-	460-00-4	104	1.0	%	E611I/WT	14-Oct-2025	14-Oct-2025	2274025
Difluorobenzene, 1,4-	540-36-3	110	1.0	%	E611E/EO	09-Oct-2025	11-Oct-2025	2267327
Difluorobenzene, 1,4-	540-36-3	101	1.0	%	E611I/WT	14-Oct-2025	14-Oct-2025	2274025
Polycyclic Aromatic Hydrocarbons								
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	99.4	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Naphthalene-d8	1146-65-2	93.0	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Phenanthrene-d10	1517-22-2	96.5	0.1	%	E641A/EO	09-Oct-2025	09-Oct-2025	2267644
Disinfectant By-Products								
Bromate	15541-45-4	<0.30	0.30	µg/L	E722A/WT	09-Oct-2025	09-Oct-2025	2268170
Chlorate	14866-68-3	0.064	0.010	mg/L	E409.CLO3/WT	09-Oct-2025	09-Oct-2025	2268902
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	09-Oct-2025	09-Oct-2025	2268903
Semi-Volatile Organics								
Nitrosodimethylamine, N- [NDMA]	62-75-9	<0.00090	0.00090	µg/L	E725-T/WT	10-Oct-2025	10-Oct-2025	2269392
Semi-Volatile Organics Surrogates								
Fluorobiphenyl, 2-	321-60-8	97.4	1.0	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Nitrobenzene-d5	4165-60-0	95.7	1.0	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Terphenyl-d14, p-	1718-51-0	179	1.0	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Chlorinated Phenolics								



Analytical Results

FC2502915-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Chlorinated Phenolics								
Dichlorophenol, 2,4-	120-83-2	<0.20	0.20	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Pentachlorophenol [PCP]	87-86-5	<0.50	0.50	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Tetrachlorophenol, 2,3,4,6-	58-90-2	<0.50	0.50	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Trichlorophenol, 2,4,6-	88-06-2	<0.20	0.20	µg/L	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Phenolics Surrogates								
Tribromophenol, 2,4,6-	118-79-6	96.2	0.50	%	E625A/WT	09-Oct-2025	09-Oct-2025	2266453
Organochlorine Pesticides Surrogates								
Decachlorobiphenyl	2051-24-3	88.8	0.10	%	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Tetrachloro-m-xylene	877-09-8	96.0	0.10	%	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Herbicides								
Alachlor	15972-60-8	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine	1912-24-9	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine + metabolites, total	----	<0.45	0.45	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine + N-dealkylated metabolites	----	<0.10	0.1	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Atrazine-desethyl	6190-65-4	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Cyanazine	21725-46-2	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Diclofop-methyl	51338-27-3	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Dinoseb	88-85-7	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Diuron	330-54-1	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Metolachlor	51218-45-2	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Metribuzin	21087-64-9	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Prometryn	7287-19-6	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Simazine	122-34-9	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Triallate	2303-17-5	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Trifluralin	1582-09-8	<0.10	0.10	µg/L	E756/WT	10-Oct-2025	17-Oct-2025	2269412
Herbicides Surrogates								
Dichlorophenylacetic acid, 2,4-	19719-28-9	106	1.0	%	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Insecticides								
Aldicarb	116-06-3	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Azinphos-methyl	86-50-0	<0.10	0.10	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Bendiocarb	22781-23-3	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Carbaryl	63-25-2	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Carbofuran	1563-66-2	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Chlorpyrifos	2921-88-2	<0.10	0.10	µg/L	E756/WT	10-Oct-2025	17-Oct-2025	2269412
Diazinon	333-41-5	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Dimethoate	60-51-5	<0.050	0.050	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Malathion	121-75-5	<0.025	0.025	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Parathion	56-38-2	<0.10	0.10	µg/L	E756/WT	10-Oct-2025	17-Oct-2025	2269412
Phorate	298-02-2	<0.25	0.25	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Temephos	3383-96-8	<0.25	0.25	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Terbufos	13071-79-9	<0.50	0.50	µg/L	E755/WT	10-Oct-2025	10-Oct-2025	2269405
Pesticides								
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Aldrin	309-00-2	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Aldrin + Dieldrin	----	<0.011	0.011	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637



Analytical Results

FC2502915-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Pesticides								
Bromoxynil	1689-84-5	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Chlordane, cis- (alpha)	5103-71-9	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Chlordane, total	57-74-9	<0.011	0.011	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Chlordane, trans- (gamma)	5103-74-2	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDD, 2,4'-	53-19-0	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDD, 4,4'-	72-54-8	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDD, total	----	<0.0060	0.006	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDE, 2,4'-	3424-82-6	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDE, 4,4'-	72-55-9	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDE, total	----	<0.0060	0.006	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT + metabolites, total	----	<0.010	0.01	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT, 2,4'-	789-02-6	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT, 4,4'-	50-29-3	<0.0040	0.0040	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
DDT, total	----	<0.0060	0.006	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Dicamba	1918-00-9	<0.10	0.10	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	94-75-7	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Dieldrin	60-57-1	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Diquat (ion)	2764-72-9	<1.0	1.0	µg/L	E723A/WT	10-Oct-2025	15-Oct-2025	2270391
Glyphosate	1071-83-6	<1.0	1.0	µg/L	E716A/WT	15-Oct-2025	16-Oct-2025	2276247
Heptachlor	76-44-8	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Heptachlor + Heptachlor epoxide	n/a	<0.011	0.011	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Heptachlor epoxide	1024-57-3	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Hexachlorocyclohexane, gamma- [Lindane]	58-89-9	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Methoxychlor	72-43-5	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Oxychlordan	27304-13-8	<0.0080	0.0080	µg/L	E660F/WT	10-Oct-2025	14-Oct-2025	2270637
Paraquat (as dichloride)	1910-42-5	<1.0	1.0	µg/L	E723A/WT	10-Oct-2025	15-Oct-2025	2270391
Picloram	1918-02-1	<0.50 ^{DLM}	0.50	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Trichlorophenoxyacetic acid, 2,4,5- [2,4,5-T]	93-76-5	<0.050	0.050	µg/L	E706A/WT	10-Oct-2025	14-Oct-2025	2269390
Nitrosamines Surrogates								
Nitrosodimethylamine-d6, N-	17829-05-9	106	0.00090	%	E725-T/WT	10-Oct-2025	10-Oct-2025	2269392

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

Analytical Results

FC2502915-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan (Re-check-8444)

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Aluminum, total	7429-90-5	0.184	0.0030	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Arsenic, total	7440-38-2	0.00044	0.00010	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Barium, total	7440-39-3	0.0358	0.00010	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Boron, total	7440-42-8	0.015	0.010	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425



Analytical Results

FC2502915-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: R1-9150030-Fort Chipewyan (Re-check-8444)

Client sampling date / time: 06-Oct-2025 06:30

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Total Metals								
Cadmium, total	7440-43-9	0.121	0.0050	µg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Calcium, total	7440-70-2	13.1	0.050	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Chromium, total	7440-47-3	0.00132	0.00050	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Copper, total	7440-50-8	0.0734	0.00050	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Iron, total	7439-89-6	0.923	0.010	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Lead, total	7439-92-1	1.43	0.050	µg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Magnesium, total	7439-95-4	3.76	0.0050	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Manganese, total	7439-96-5	0.379	0.00010	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Nickel, total	7440-02-0	0.0113	0.00050	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Selenium, total	7782-49-2	<0.050	0.050	µg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Silver, total	7440-22-4	0.035	0.010	µg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Sodium, total	7440-23-5	15.4	0.050	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Strontium, total	7440-24-6	0.0855	0.00020	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Uranium, total	7440-61-1	0.041	0.010	µg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425
Zinc, total	7440-66-6	0.0337	0.0030	mg/L	E420/EO	21-Oct-2025	21-Oct-2025	2289425

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