



CERTIFICATE OF ANALYSIS

Work Order	: FC2503523	Laboratory	: ALS Environmental - Fort McMurray
Client	: Regional Municipality of Wood Buffalo	Account Manager	: Megha Walla
Contact	: Water Treatment Plant	Address	: #4, 340 Macalpine Crescent
Address	: 1 Silin Forest Road		Fort McMurray AB Canada T9H 4A8
Telephone	: 780-762-5863	E-mail	: Megha.Walla@alsglobal.com
Project	: Fort Chipewyan Table 1	Telephone	: +1 780 791 1524
PO	: 4500060925	Date Samples Received	: 15-Dec-2025 14:05
C-O-C number	: ---	Date Analysis Commenced	: 16-Dec-2025
Sampler	: EM	Issue Date	: 24-Dec-2025 14:58
Site	: ---		
Quote number	: Water Treatment Plant		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Laboratory Department
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
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Walt Kippenhuck	Supervisor - Inorganic	Inorganics, 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
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre

<: less than.

>: greater than.

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

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

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

Qualifiers

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. Mass Spectrometry qualifier ion ratio did not meet acceptance criteria.



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)		Client sample ID		Treated Water	Raw Water Chamber Tap				
Analyte	CAS Number	Method/Lab	Client sampling date / time		15-Dec-2025 08:15	15-Dec-2025 08:00			
			LOR	Unit	FC2503523-001	FC2503523-002			
					Result	Result			
Physical Tests									
Alkalinity, bicarbonate (as HCO3)	71-52-3	E290/EO	1.2	mg/L	56.4	42.6			
Alkalinity, carbonate (as CO3)	3812-32-6	E290/EO	1.0	mg/L	<0.6	<0.6			
Alkalinity, hydroxide (as OH)	14280-30-9	E290/EO	1.0	mg/L	<0.3	<0.3			
Alkalinity, total (as CaCO3)	----	E290/EO	1.0	mg/L	46.2	34.9			
Conductivity	----	E100/EO	1.0	µS/cm	136	90.8			
Hardness (as CaCO3), dissolved	----	EC100/EO	0.50	mg/L	39.7	36.2			
pH	----	E108/EO	0.10	pH units	7.80	7.54			
Salinity	----	EC100S/A	1.0	psu	<1.0	<1.0			
Solids, total dissolved [TDS], calculated	----	EC103/EO	1.0	mg/L	78.7	51.6			
Anions and Nutrients									
Chloride	16887-00-6	E235.Cl/EO	0.50	mg/L	12.7	3.51			
Fluoride	16984-48-8	E235.F/EO	0.020	mg/L	0.063	0.091			
Nitrate (as N)	14797-55-8	E235.NO3/EO	0.020	mg/L	0.035	0.030			
Nitrate + Nitrite (as N)	----	EC235.N+N/EO	0.0032	mg/L	0.0350	0.0300			
Nitrite (as N)	14797-65-0	E235.NO2/EO	0.010	mg/L	<0.010	<0.010			
Sulfate (as SO4)	14808-79-8	E235.SO4/EO	0.30	mg/L	4.01	3.98			
Total Sulfides									
Sulfide, total (as S)	18496-25-8	E395/CG	0.0015	mg/L	<0.0015	<0.0015			
Sulfide, total (as H2S)	7783-06-4	E395/CG	0.0016	mg/L	<0.0016	<0.0016			
Metals									
Sodium adsorption ratio [SAR]	----	EC102A/EO	0.10	-	0.93	0.25			



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)											
Analyte	Client sample ID					Treated Water		Raw Water Chamber Tap			
	CAS Number	Method/Lab	Client sampling date / time		LOR	Unit	Result	FC2503523-001	15-Dec-2025 08:15	Result	FC2503523-002
Ion Balance											
Ion balance (cations/anions)											
EC-101/EO											
0.010											
%											
102											
101											
Total Metals											
Aluminum, total	7429-90-5	E420/EO	0.0030	mg/L	0.0092	0.116					
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	0.00013	0.00036					
Barium, total	7440-39-3	E420/EO	0.00010	mg/L	0.0188	0.0208					
Beryllium, total	7440-41-7	E420/EO	0.000020	mg/L	<0.000020	<0.000020					
Bismuth, total	7440-69-9	E420/EO	0.000050	mg/L	<0.000050	<0.000050					
Boron, total	7440-42-8	E420/EO	0.010	mg/L	0.015	0.015					
Cadmium, total	7440-43-9	E420/EO	0.0000050	mg/L	<0.0000050	0.0000060					
Calcium, total	7440-70-2	E420/EO	0.050	mg/L	10.5	9.88					
Cesium, total	7440-46-2	E420/EO	0.000010	mg/L	<0.000010	0.000030					
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	0.00075	0.00144					
Iron, total	7439-89-6	E420/EO	0.010	mg/L	<0.010	0.257					
Lead, total	7439-92-1	E420/EO	0.000050	mg/L	<0.000050	0.000156					
Lithium, total	7439-93-2	E420/EO	0.0010	mg/L	0.0029	0.0032					
Magnesium, total	7439-95-4	E420/EO	0.0050	mg/L	2.86	2.89					
Manganese, total	7439-96-5	E420/EO	0.00010	mg/L	0.00279	0.00901					
Molybdenum, total	7439-98-7	E420/EO	0.000050	mg/L	0.000227	0.000235					



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)		Client sample ID				Raw Water Chamber Tap		Treated Water		Result		Result		Result		Result	
		Client sampling date / time				15-Dec-2025 08:15		15-Dec-2025 08:00		FC2503523-001		FC2503523-002		Result		Result	
Analyte		CAS Number		Method/Lab		LOR		Unit		Result		Result		Result		Result	
Total Metals																	
Nickel, total		7440-02-0	E420EO		0.00050		mg/L	<0.00050	0.00066								
Phosphorus, total		7723-14-0	E420EO		0.050		mg/L	<0.050	<0.050								
Potassium, total		7440-09-7	E420EO		0.050		mg/L	0.957	0.989								
Rubidium, total		7440-17-7	E420EO		0.00020		mg/L	0.00090	0.00111								
Selenium, total		7782-49-2	E420EO		0.000050		mg/L	<0.000050	<0.000050								
Silicon, total		7440-21-3	E420EO		0.10		mg/L	2.03	2.35								
Silver, total		7440-22-4	E420EO		0.000010		mg/L	<0.000010	<0.000010								
Sodium, total		7440-23-5	E420EO		0.050		mg/L	13.4	3.62								
Strontium, total		7440-24-6	E420EO		0.00020		mg/L	0.0688	0.0708								
Sulfur, total		7704-34-9	E420EO		0.50		mg/L	1.70	1.75								
Tellurium, total		13494-80-9	E420EO		0.00020		mg/L	<0.00020	<0.00020								
Thallium, total		7440-28-0	E420EO		0.000010		mg/L	<0.000010	<0.000010								
Thorium, total		7440-29-1	E420EO		0.00010		mg/L	<0.00010	<0.00010								
Tin, total		7440-31-5	E420EO		0.00010		mg/L	<0.00010	<0.00010								
Titanium, total		7440-32-6	E420EO		0.00030		mg/L	<0.00030	0.00238								
Tungsten, total		7440-33-7	E420EO		0.00010		mg/L	<0.00010	<0.00010								
Uranium, total		7440-61-1	E420EO		0.000010		mg/L	<0.000010	0.000072								
Vanadium, total		7440-62-2	E420EO		0.00050		mg/L	<0.00050	0.00054								
Zinc, total		7440-66-6	E420EO		0.0030		mg/L	<0.0030	<0.0030								
Zirconium, total		7440-67-7	E420EO		0.00020		mg/L	<0.00020	<0.00020								



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Client sample ID				Treated Water	Raw Water Chamber Tap				
Client sampling date / time				15-Dec-2025 08:15	15-Dec-2025 08:00				
Analyte	CAS Number	Method/Lab	LOR	Unit	FC2503523-001	FC2503523-002			
Result									
Dissolved Metals									
Aluminum, dissolved	7429-90-5	E421/EO	0.0010	mg/L	0.0079	0.0043			
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	0.00011	0.00019			
Barium, dissolved	7440-39-3	E421/EO	0.00010	mg/L	0.0186	0.0184			
Beryllium, dissolved	7440-41-7	E421/EO	0.000020	mg/L	<0.000020	<0.000020			
Bismuth, dissolved	7440-69-9	E421/EO	0.000050	mg/L	<0.000050	<0.000050			
Boron, dissolved	7440-42-8	E421/EO	0.010	mg/L	0.015	0.014			
Cadmium, dissolved	7440-43-9	E421/EO	0.0000050	mg/L	<0.0000050	<0.0000050			
Calcium, dissolved	7440-70-2	E421/EO	0.050	mg/L	11.1	9.87			
Cesium, dissolved	7440-46-2	E421/EO	0.000010	mg/L	<0.000010	<0.000010			
Chromium, dissolved	7440-47-3	E421/EO	0.00050	mg/L	<0.00050	<0.00050			
Cobalt, dissolved	7440-48-4	E421/EO	0.00010	mg/L	<0.00010	<0.00010			
Copper, dissolved	7440-50-8	E421/EO	0.00020	mg/L	0.00070	0.00102			
Iron, dissolved	7439-89-6	E421/EO	0.010	mg/L	<0.010	0.013			
Lead, dissolved	7439-92-1	E421/EO	0.000050	mg/L	<0.000050	<0.000050			
Lithium, dissolved	7439-93-2	E421/EO	0.0010	mg/L	0.0028	0.0029			
Magnesium, dissolved	7439-95-4	E421/EO	0.0050	mg/L	2.91	2.81			
Manganese, dissolved	7439-96-5	E421/EO	0.00010	mg/L	0.00199	0.00250			
Molybdenum, dissolved	7439-98-7	E421/EO	0.000050	mg/L	0.000325	0.000243			
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			



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)		Client sample ID				Treated Water	Raw Water Chamber Tap				
		Client sampling date / time									
		CAS Number	Method/Lab	LOR	Unit	FC2503523-001	FC2503523-002				
Analyte						Result	Result				
Dissolved Metals											
Potassium, dissolved	7440-09-7	E421/EO	0.050	mg/L	0.981	0.948					
Rubidium, dissolved	7440-17-7	E421/EO	0.00020	mg/L	0.00085	0.00089					
Selenium, dissolved	7782-49-2	E421/EO	0.000050	mg/L	<0.000050	<0.000050					
Silicon, dissolved	7440-21-3	E421/EO	0.050	mg/L	2.07	2.15					
Silver, dissolved	7440-22-4	E421/EO	0.000010	mg/L	<0.000010	<0.000010					
Sodium, dissolved	7440-23-5	E421/EO	0.050	mg/L	13.4	3.50					
Strontium, dissolved	7440-24-6	E421/EO	0.00020	mg/L	0.0700	0.0675					
Sulfur, dissolved	7704-34-9	E421/EO	0.50	mg/L	1.64	1.70					
Tellurium, dissolved	13494-80-9	E421/EO	0.00020	mg/L	<0.00020	<0.00020					
Thallium, dissolved	7440-28-0	E421/EO	0.000010	mg/L	<0.000010	<0.000010					
Thorium, dissolved	7440-29-1	E421/EO	0.00010	mg/L	<0.00010	<0.00010					
Tin, dissolved	7440-31-5	E421/EO	0.00010	mg/L	<0.00010	<0.00010					
Titanium, dissolved	7440-32-6	E421/EO	0.00030	mg/L	<0.00030	<0.00030					
Tungsten, dissolved	7440-33-7	E421/EO	0.00010	mg/L	<0.00010	<0.00010					
Uranium, dissolved	7440-61-1	E421/EO	0.000010	mg/L	<0.000010	0.000046					
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	<0.00020					
Dissolved metals filtration location	-----	EP421/EO	-	-	Field	Field					
Aggregate Organics											
Naphthenic acids	-----	E565/EO	1.0	mg/L	<1.0	<1.0					



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)		Client sample ID				Treated Water	Raw Water Chamber Tap				
Analyte		CAS Number	Method/Lab	Client sampling date / time		LOR	Unit	Result	FC2503523-001	15-Dec-2025 08:15	15-Dec-2025 08:00
Volatile Organic Compounds [Fuels]											
Benzene	71-43-2	E611A/EO	0.50	µg/L	<0.50	<0.50					
Ethylbenzene	100-41-4	E611A/EO	0.50	µg/L	<0.50	<0.50					
Methyl-tert-butyl ether [MTBE]	1634-04-4	E611A/EO	0.50	µg/L	<0.50	<0.50					
Styrene	100-42-5	E611A/EO	0.50	µg/L	<0.50	<0.50					
Toluene	108-88-3	E611A/EO	0.50	µg/L	<0.50	<0.50					
Xylene, m+p-	179601-23-1	E611A/EO	0.40	µg/L	<0.40	<0.40					
Xylene, o-	95-47-6	E611A/EO	0.30	µg/L	<0.30	<0.30					
Xylenes, total	1330-20-7	E611A/EO	0.50	µg/L	<0.50	<0.50					
BTEX, total		E611A/EO	1.0	µg/L	<1.0	<1.0					
Hydrocarbons											
F1 (C6-C10)		E581.F1/EO	100	µg/L	<100	<100					
F1-BTEX		EC580/EO	25	µg/L	<100	<100					
F2 (C10-C16)		E601/EO	100	µg/L	<100	<100					
F3 (C16-C34)		E601/EO	250	µg/L	<250	<250					
F4 (C34-C50)		E601/EO	250	µg/L	<250	<250					
Hydrocarbons, total (C6-C50)	n/a	EC581/EO	370	µg/L	<380	<380					
TEH (C10-C50)	n/a	E601/EO	400	µg/L	<400	<400					
TEH (C16-C50)		E601/EO	400	µg/L	<400	<400					
Hydrocarbons Surrogates											
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/EO	1.0	%	102	104					
Dichlorotoluene, 3,4-	95-75-0	E581.F1/EO	1.0	%	127	115					



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)		Client sample ID				Treated Water	Raw Water Chamber Tap			
Analyte	CAS Number	Method/Lab	Client sampling date / time		LOR	Unit	Result	Result		
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/EO	1.0	%	1.0	%	70.9	70.2		
Difluorobenzene, 1,4-	540-36-3	E611A/EO	1.0	%			91.7	98.3		
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/EO	0.010	µg/L			<0.010	<0.010		
Acenaphthylene	208-96-8	E641A/EO	0.010	µg/L			<0.010	<0.010		
Acridine	260-94-6	E641A/EO	0.010	µg/L			<0.010	<0.010		
Anthracene	120-12-7	E641A/EO	0.010	µg/L			<0.010	<0.010		
Benz(a)anthracene	56-55-3	E641A/EO	0.010	µg/L			<0.010	<0.010		
Benzo(a)pyrene	50-32-8	E641A/EO	0.0050	µg/L			<0.0050	<0.0050		
Benzo(b+j)fluoranthene	n/a	E641A/EO	0.010	µg/L			<0.010	<0.010		
Benzo(b+j+k)fluoranthene	n/a	E641A/EO	0.015	µg/L			<0.015	<0.015		
Benzo(e)pyrene	192-97-2	E641A/EO	0.010	µg/L			<0.010	<0.010		
Benzo(g,h,i)perylene	191-24-2	E641A/EO	0.010	µg/L			<0.010	<0.010		
Benzo(k)fluoranthene	207-08-9	E641A/EO	0.010	µg/L			<0.010	<0.010		
Chrysene	218-01-9	E641A/EO	0.010	µg/L			<0.010	<0.010		
Dibenz(a,h)anthracene	53-70-3	E641A/EO	0.0050	µg/L			<0.0050	<0.0050		
Fluoranthene	206-44-0	E641A/EO	0.010	µg/L			<0.010	<0.010		
Fluorene	86-73-7	E641A/EO	0.010	µg/L			<0.010	<0.010		
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/EO	0.010	µg/L			<0.010	<0.010		
Methylnaphthalene, 1-	90-12-0	E641A/EO	0.010	µg/L			<0.010	<0.010		
Methylnaphthalene, 1+2-	-----	E641A/EO	0.015	µg/L			<0.015	<0.015		



Analytical Results

Sub-Matrix: Water
(Matrix: Water)

Sub-Matrix: Water (Matrix: Water)		Client sample ID			Treated Water		Raw Water Chamber Tap								
Analyte		CAS Number		Method/Lab		Client sampling date / time		15-Dec-2025 08:15		15-Dec-2025 08:00					
						LOR	Unit	FC2503523-001	FC2503523-002	Result	Result				
Polycyclic Aromatic Hydrocarbons															
Methylnaphthalene, 2-		91-57-6	E641A/EO	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Naphthalene		91-20-3	E641A/EO	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Perylene		198-55-0	E641A/EO	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene		85-01-8	E641A/EO	0.020	µg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Pyrene		129-00-0	E641A/EO	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Quinoline		91-22-5	E641A/EO	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline		91-22-5	E641A/EO	0.05	µg/L	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
B(a)P total potency equivalents [B(a)P TPE]			E641A/EO	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
PAHs, high molecular weight (BC AWQ)		n/a	E641A/EO	0.030	µg/L	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
PAHs, low molecular weight (BC AWQ)		n/a	E641A/EO	0.060	µg/L	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060
PAHs, total (CCME sewer 18)		n/a	E641A/EO	0.070	µg/L	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070	<0.070
PAHs, total (EPA 16)		n/a	E641A/EO	0.065	µg/L	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
PAHs, total (P2MMP)		n/a	E641A/EO	0.040	µg/L	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Polycyclic Aromatic Hydrocarbons Surrogates															
Chrysene-d12		1719-03-5	E641A/EO	0.1	%	101	101	106	106	106	106	106	106	106	106
Naphthalene-d8		1146-65-2	E641A/EO	0.1	%	128	128	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
Phenanthrene-d10		1517-22-2	E641A/EO	0.1	%	92.0	92.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Disinfectant By-Products															
Chlorate		14866-68-3	E409.CLO3/WT	0.010	mg/L	0.061	0.061	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Chlorite		14998-27-7	E409.CLO2/WT	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

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

CERTIFICATE OF ANALYSIS

Work Order	: FC2503523	Page	: 1 of 10
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 Table 1	Date Samples Received	: 15-Dec-2025 14:05
PO	: 4500060925	Date Analysis	: 16-Dec-2025
		Commenced	
		Issue Date	: 24-Dec-2025 14:58
C-O-C number	: ----		
Sampler	: EM		
Site	: ----		
Quote number	: Water Treatment Plant		
No. of samples received	: 2		
No. of samples analysed	: 2		

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

Signatories

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

Signatories	Position	Laboratory Department
Alex Drake	Lab Analyst	Inorganics, Edmonton, Alberta
Alex Drake	Lab Analyst	Metals, Edmonton, Alberta
Daniel Nguyen	Laboratory Analyst	Metals, Edmonton, Alberta
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Harpreet Chawla	Team Leader - Inorganics	Inorganics, Calgary, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Logan Carroll	Laboratory Analyst	Inorganics, Edmonton, Alberta
Monica Ko	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Shruti Mudliar	Lab Analyst	Inorganics, Edmonton, Alberta
Walt Kippenhuck	Supervisor - Inorganic	Inorganics, 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
mg/L	milligrams per litre
pH units	pH units
psu	practical salinity units

>: greater than.

<: less than.

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

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

Qualifiers

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. Mass Spectrometry qualifier ion ratio did not meet acceptance criteria.



Analytical Results

FC2503523-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 15-Dec-2025 08:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	56.4	1.2	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Alkalinity, total (as CaCO ₃)	----	46.2	1.0	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Conductivity	----	136	1.0	µS/cm	E100/EO	16-Dec-2025	16-Dec-2025	2388476
Hardness (as CaCO ₃), dissolved	----	39.7	0.50	mg/L	EC100/EO	-	18-Dec-2025	-
pH	----	7.80	0.10	pH units	E108/EO	16-Dec-2025	16-Dec-2025	2388475
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	21-Dec-2025	-
Solids, total dissolved [TDS], calculated	----	78.7	1.0	mg/L	EC103/EO	-	17-Dec-2025	-
Anions and Nutrients								
Chloride	16887-00-6	12.7	0.50	mg/L	E235.Cl/EO	16-Dec-2025	16-Dec-2025	2388438
Fluoride	16984-48-8	0.063	0.020	mg/L	E235.F/EO	16-Dec-2025	16-Dec-2025	2388437
Nitrate (as N)	14797-55-8	0.035	0.020	mg/L	E235.NO ₃ /EO	16-Dec-2025	16-Dec-2025	2388435
Nitrate + Nitrite (as N)	----	0.0350	0.022	mg/L	EC235.N+N/EO	-	17-Dec-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO ₂ /EO	16-Dec-2025	16-Dec-2025	2388436
Sulfate (as SO ₄)	14808-79-8	4.01	0.30	mg/L	E235.SO ₄ /EO	16-Dec-2025	16-Dec-2025	2388434
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	17-Dec-2025	2389657
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	17-Dec-2025	2389657
Metals								
Sodium adsorption ratio [SAR]	----	0.93	0.10	-	EC102A/EO	-	18-Dec-2025	-
Ion Balance								
Ion balance (cations/anions)	----	102	0.010	%	EC101/EO	-	17-Dec-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.0092	0.0030	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Arsenic, total	7440-38-2	0.00013	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Barium, total	7440-39-3	0.0188	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Boron, total	7440-42-8	0.015	0.010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Cadmium, total	7440-43-9	<0.0000050	0.0000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Calcium, total	7440-70-2	10.5	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Cesium, total	7440-46-2	<0.000010	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Copper, total	7440-50-8	0.00075	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Iron, total	7439-89-6	<0.010	0.010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Lead, total	7439-92-1	<0.000050	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Lithium, total	7439-93-2	0.0029	0.0010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Magnesium, total	7439-95-4	2.86	0.0050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Manganese, total	7439-96-5	0.00279	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Molybdenum, total	7439-98-7	0.000227	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Nickel, total	7440-02-0	<0.00050	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264



Analytical Results

FC2503523-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 15-Dec-2025 08:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Potassium, total	7440-09-7	0.957	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Rubidium, total	7440-17-7	0.00090	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Silicon, total	7440-21-3	2.03	0.10	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Sodium, total	7440-23-5	13.4	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Strontium, total	7440-24-6	0.0688	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Sulfur, total	7704-34-9	1.70	0.50	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Titanium, total	7440-32-6	<0.00030	0.00030	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Uranium, total	7440-61-1	<0.000010	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Vanadium, total	7440-62-2	<0.00050	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0079	0.0010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Arsenic, dissolved	7440-38-2	0.00011	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Barium, dissolved	7440-39-3	0.0186	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Boron, dissolved	7440-42-8	0.015	0.010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Calcium, dissolved	7440-70-2	11.1	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Copper, dissolved	7440-50-8	0.00070	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Iron, dissolved	7439-89-6	<0.010	0.010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Lithium, dissolved	7439-93-2	0.0028	0.0010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Magnesium, dissolved	7439-95-4	2.91	0.0050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Manganese, dissolved	7439-96-5	0.00199	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Molybdenum, dissolved	7439-98-7	0.000325	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Potassium, dissolved	7440-09-7	0.981	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Rubidium, dissolved	7440-17-7	0.00085	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Silicon, dissolved	7440-21-3	2.07	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114



Analytical Results

FC2503523-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 15-Dec-2025 08:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Sodium, dissolved	7440-23-5	13.4	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Strontium, dissolved	7440-24-6	0.0700	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Sulfur, dissolved	7704-34-9	1.64	0.50	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Uranium, dissolved	7440-61-1	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Zinc, dissolved	7440-66-6	<0.0010	0.0010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	17-Dec-2025	2389114
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	18-Dec-2025	22-Dec-2025	2391983
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	19-Dec-2025	19-Dec-2025	2392966
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	21-Dec-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	19-Dec-2025	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	102	1.0	%	E601/EO	17-Dec-2025	17-Dec-2025	2389266
Dichlorotoluene, 3,4-	95-75-0	127	1.0	%	E581.F1/EO	19-Dec-2025	19-Dec-2025	2392966
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	70.9	1.0	%	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Difluorobenzene, 1,4-	540-36-3	91.7	1.0	%	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267



Analytical Results

FC2503523-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Treated Water

Client sampling date / time: 15-Dec-2025 08:15

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Polycyclic Aromatic Hydrocarbons								
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Quinoline	91-22-5	<0.068 ^{DLQ}	0.05	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.030	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.060	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, total (CCME sewer 18)	n/a	<0.070	0.070	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, total (P2MMP)	n/a	<0.040	0.040	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	101	0.1	%	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Naphthalene-d8	1146-65-2	128	0.1	%	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Phenanthrene-d10	1517-22-2	92.0	0.1	%	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Disinfectant By-Products								
Chlorate	14866-68-3	0.061	0.010	mg/L	E409.CLO3/WT	17-Dec-2025	17-Dec-2025	2390415
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	17-Dec-2025	17-Dec-2025	2390416

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

Analytical Results

FC2503523-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 15-Dec-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Physical Tests								
Alkalinity, bicarbonate (as HCO ₃)	71-52-3	42.6	1.2	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474



Analytical Results

FC2503523-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 15-Dec-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QC/Lot
Physical Tests								
Alkalinity, carbonate (as CO ₃)	3812-32-6	<0.6	0.6	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Alkalinity, hydroxide (as OH)	14280-30-9	<0.3	0.3	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Alkalinity, total (as CaCO ₃)	----	34.9	1.0	mg/L	E290/EO	16-Dec-2025	16-Dec-2025	2388474
Conductivity	----	90.8	1.0	µS/cm	E100/EO	16-Dec-2025	16-Dec-2025	2388476
Hardness (as CaCO ₃), dissolved	----	36.2	0.50	mg/L	EC100/EO	-	18-Dec-2025	-
pH	----	7.54	0.10	pH units	E108/EO	16-Dec-2025	16-Dec-2025	2388475
Salinity	----	<1.0	1.0	psu	EC100S/VA	-	21-Dec-2025	-
Solids, total dissolved [TDS], calculated	----	51.6	1.0	mg/L	EC103/EO	-	17-Dec-2025	-
Anions and Nutrients								
Chloride	16887-00-6	3.51	0.50	mg/L	E235.Cl/EO	16-Dec-2025	16-Dec-2025	2388438
Fluoride	16984-48-8	0.091	0.020	mg/L	E235.F/EO	16-Dec-2025	16-Dec-2025	2388437
Nitrate (as N)	14797-55-8	0.030	0.020	mg/L	E235.NO ₃ /EO	16-Dec-2025	16-Dec-2025	2388435
Nitrate + Nitrite (as N)	----	0.0300	0.022	mg/L	EC235.N+N/EO	-	17-Dec-2025	-
Nitrite (as N)	14797-65-0	<0.010	0.010	mg/L	E235.NO ₂ /EO	16-Dec-2025	16-Dec-2025	2388436
Sulfate (as SO ₄)	14808-79-8	3.98	0.30	mg/L	E235.SO ₄ /EO	16-Dec-2025	16-Dec-2025	2388434
Total Sulfides								
Sulfide, total (as S)	18496-25-8	<0.0015	0.0015	mg/L	E395/CG	-	17-Dec-2025	2389657
Sulfide, total (as H ₂ S)	7783-06-4	<0.0016	0.0016	mg/L	E395/CG	-	17-Dec-2025	2389657
Metals								
Sodium adsorption ratio [SAR]	----	0.25	0.10	-	EC102A/EO	-	18-Dec-2025	-
Ion Balance								
Ion balance (cations/anions)	----	101	0.010	%	EC101/EO	-	17-Dec-2025	-
Total Metals								
Aluminum, total	7429-90-5	0.116	0.0030	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Antimony, total	7440-36-0	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Arsenic, total	7440-38-2	0.00036	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Barium, total	7440-39-3	0.0208	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Beryllium, total	7440-41-7	<0.000020	0.000020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Bismuth, total	7440-69-9	<0.000050	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Boron, total	7440-42-8	0.015	0.010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Cadmium, total	7440-43-9	0.0000060	0.0000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Calcium, total	7440-70-2	9.88	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Cesium, total	7440-46-2	0.000030	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Chromium, total	7440-47-3	<0.00050	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Cobalt, total	7440-48-4	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Copper, total	7440-50-8	0.00144	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Iron, total	7439-89-6	0.257	0.010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Lead, total	7439-92-1	0.000156	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Lithium, total	7439-93-2	0.0032	0.0010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Magnesium, total	7439-95-4	2.89	0.0050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Manganese, total	7439-96-5	0.00901	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Molybdenum, total	7439-98-7	0.000235	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Nickel, total	7440-02-0	0.00066	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Phosphorus, total	7723-14-0	<0.050	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Potassium, total	7440-09-7	0.989	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264



Analytical Results

FC2503523-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 15-Dec-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLOT
Total Metals								
Rubidium, total	7440-17-7	0.00111	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Selenium, total	7782-49-2	<0.000050	0.000050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Silicon, total	7440-21-3	2.35	0.10	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Silver, total	7440-22-4	<0.000010	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Sodium, total	7440-23-5	3.62	0.050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Strontium, total	7440-24-6	0.0708	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Sulfur, total	7704-34-9	1.75	0.50	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Tellurium, total	13494-80-9	<0.00020	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Thallium, total	7440-28-0	<0.000010	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Thorium, total	7440-29-1	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Tin, total	7440-31-5	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Titanium, total	7440-32-6	0.00238	0.00030	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Tungsten, total	7440-33-7	<0.00010	0.00010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Uranium, total	7440-61-1	0.000072	0.000010	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Vanadium, total	7440-62-2	0.00054	0.00050	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Zinc, total	7440-66-6	<0.0030	0.0030	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Zirconium, total	7440-67-7	<0.00020	0.00020	mg/L	E420/EO	17-Dec-2025	17-Dec-2025	2389264
Dissolved Metals								
Aluminum, dissolved	7429-90-5	0.0043	0.0010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Antimony, dissolved	7440-36-0	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Arsenic, dissolved	7440-38-2	0.00019	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Barium, dissolved	7440-39-3	0.0184	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Beryllium, dissolved	7440-41-7	<0.000020	0.000020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Bismuth, dissolved	7440-69-9	<0.000050	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Boron, dissolved	7440-42-8	0.014	0.010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Cadmium, dissolved	7440-43-9	<0.0000050	0.0000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Calcium, dissolved	7440-70-2	9.87	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Cesium, dissolved	7440-46-2	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Chromium, dissolved	7440-47-3	<0.00050	0.00050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Cobalt, dissolved	7440-48-4	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Copper, dissolved	7440-50-8	0.00102	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Iron, dissolved	7439-89-6	0.013	0.010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Lead, dissolved	7439-92-1	<0.000050	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Lithium, dissolved	7439-93-2	0.0029	0.0010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Magnesium, dissolved	7439-95-4	2.81	0.0050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Manganese, dissolved	7439-96-5	0.00250	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Molybdenum, dissolved	7439-98-7	0.000243	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Nickel, dissolved	7440-02-0	<0.00050	0.00050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Phosphorus, dissolved	7723-14-0	<0.050	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Potassium, dissolved	7440-09-7	0.948	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Rubidium, dissolved	7440-17-7	0.00089	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Selenium, dissolved	7782-49-2	<0.000050	0.000050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Silicon, dissolved	7440-21-3	2.15	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Silver, dissolved	7440-22-4	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Sodium, dissolved	7440-23-5	3.50	0.050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114



Analytical Results

FC2503523-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 15-Dec-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Dissolved Metals								
Strontium, dissolved	7440-24-6	0.0675	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Sulfur, dissolved	7704-34-9	1.70	0.50	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Tellurium, dissolved	13494-80-9	<0.00020	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Thallium, dissolved	7440-28-0	<0.000010	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Thorium, dissolved	7440-29-1	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Tin, dissolved	7440-31-5	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Titanium, dissolved	7440-32-6	<0.00030	0.00030	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Tungsten, dissolved	7440-33-7	<0.00010	0.00010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Uranium, dissolved	7440-61-1	0.000046	0.000010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Vanadium, dissolved	7440-62-2	<0.00050	0.00050	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Zinc, dissolved	7440-66-6	0.0016	0.0010	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Zirconium, dissolved	7440-67-7	<0.00020	0.00020	mg/L	E421/EO	17-Dec-2025	17-Dec-2025	2389114
Dissolved metals filtration location	----	Field	-	-	EP421/EO	-	17-Dec-2025	2389114
Aggregate Organics								
Naphthenic acids	----	<1.0	1.0	mg/L	E565/EO	18-Dec-2025	22-Dec-2025	2391983
Volatile Organic Compounds [Fuels]								
Benzene	71-43-2	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Ethylbenzene	100-41-4	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Methyl-tert-butyl ether [MTBE]	1634-04-4	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Styrene	100-42-5	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Toluene	108-88-3	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Xylene, m+p-	179601-23-1	<0.40	0.40	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Xylene, o-	95-47-6	<0.30	0.30	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Xylenes, total	1330-20-7	<0.50	0.50	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
BTEX, total	----	<1.0	1.0	µg/L	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Hydrocarbons								
F1 (C6-C10)	----	<100	100	µg/L	E581.F1/EO	19-Dec-2025	19-Dec-2025	2392966
F1-BTEX	----	<100	100	µg/L	EC580/EO	-	21-Dec-2025	-
F2 (C10-C16)	----	<100	100	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
F3 (C16-C34)	----	<250	250	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
F4 (C34-C50)	----	<250	250	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
Hydrocarbons, total (C6-C50)	n/a	<380	380	µg/L	EC581/EO	-	19-Dec-2025	-
TEH (C10-C50)	n/a	<400	400	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
TEH (C16-C50)	----	<400	400	µg/L	E601/EO	17-Dec-2025	17-Dec-2025	2389266
Hydrocarbons Surrogates								
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	104	1.0	%	E601/EO	17-Dec-2025	17-Dec-2025	2389266
Dichlorotoluene, 3,4-	95-75-0	115	1.0	%	E581.F1/EO	19-Dec-2025	19-Dec-2025	2392966
Volatile Organic Compounds Surrogates								
Bromofluorobenzene, 4-	460-00-4	70.2	1.0	%	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Difluorobenzene, 1,4-	540-36-3	98.3	1.0	%	E611A/EO	19-Dec-2025	19-Dec-2025	2392967
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	83-32-9	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Acenaphthylene	208-96-8	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Acridine	260-94-6	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Anthracene	120-12-7	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267



Analytical Results

FC2503523-002

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: Raw Water Chamber Tap

Client sampling date / time: 15-Dec-2025 08:00

Analyte	CAS Number	Result	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Polycyclic Aromatic Hydrocarbons								
Benz(a)anthracene	56-55-3	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(a)pyrene	50-32-8	<0.0050	0.0050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(b+j)fluoranthene	n/a	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(b+j+k)fluoranthene	n/a	<0.015	0.015	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(e)pyrene	192-97-2	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(g,h,i)perylene	191-24-2	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Benzo(k)fluoranthene	207-08-9	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Chrysene	218-01-9	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Dibenz(a,h)anthracene	53-70-3	<0.0050	0.0050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Fluoranthene	206-44-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Fluorene	86-73-7	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Indeno(1,2,3-c,d)pyrene	193-39-5	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Methylnaphthalene, 1-	90-12-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Methylnaphthalene, 1+2-	----	<0.015	0.015	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Methylnaphthalene, 2-	91-57-6	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Naphthalene	91-20-3	<0.050	0.050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Perylene	198-55-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Phenanthrene	85-01-8	<0.020	0.020	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Pyrene	129-00-0	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Quinoline	91-22-5	<0.050	0.050	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
B(a)P total potency equivalents [B(a)P TPE]	----	<0.010	0.010	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, high molecular weight (BC AWQ)	n/a	<0.030	0.030	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, low molecular weight (BC AWQ)	n/a	<0.060	0.060	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, total (CCME sewer 18)	n/a	<0.070	0.070	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, total (EPA 16)	n/a	<0.065	0.065	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
PAHs, total (P2MMP)	n/a	<0.040	0.040	µg/L	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Polycyclic Aromatic Hydrocarbons Surrogates								
Chrysene-d12	1719-03-5	106	0.1	%	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Naphthalene-d8	1146-65-2	92.2	0.1	%	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Phenanthrene-d10	1517-22-2	99.9	0.1	%	E641A/EO	17-Dec-2025	17-Dec-2025	2389267
Disinfectant By-Products								
Chlorate	14866-68-3	<0.010	0.010	mg/L	E409.CLO3/WT	17-Dec-2025	17-Dec-2025	2390415
Chlorite	14998-27-7	<0.010	0.010	mg/L	E409.CLO2/WT	17-Dec-2025	17-Dec-2025	2390416

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