# CERTIFICATE OF ANALYSIS

| | | | | |
|---|---|---|---|---|
| **Work Order** | : | **FC2503153** | | |
| Client | : | **Regional Municipality of Wood Buffalo** | Laboratory | : ALS Environmental - Fort McMurray |
| Contact | : | Water Treatment Plant | Account Manager | : Megha Walia |
| Address | : | 1 Silin Forest Road<br>Fort Mcmurray Alberta Canada T9H 5A1 | Address | : #4, 340 Macalpine Crescent<br>Fort McMurray AB Canada T9H 4A8 |
| Telephone | : | 780-762-5863 | E-mail | : Megha.Walia@alsglobal.com |
| Project | : | Fort Chipewyan Imperial Release | Telephone | : +1 780 791 1524 |
| PO | : | 4500060925 | Date Samples Received | : 01-Nov-2025 09:30 |
| C-O-C number | : | ---- | Date Analysis Commenced | : 01-Nov-2025 |
| Sampler | : | EA | Issue Date | : 05-Nov-2025 16:47 |
| Site | : | ---- | | |
| Quote number | : | Water Treatment Plant | | |
| No. of samples received | : | 3 | | |
| No. of samples analysed | : | 3 | | |

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 |
| Dan Nguyen | Team Leader - Inorganics | Metals, Edmonton, Alberta |
| Daniel Nguyen | Laboratory Analyst | Metals, Edmonton, Alberta |
| Kari Mulroy | Lab Supervisor - Environmental | Organics, Edmonton, Alberta |
| Monica Ko | Supervisor - Inorganic | Inorganics, Burnaby, British Columbia |
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| Shruti Mudliar | Lab Analyst | Inorganics, Edmonton, Alberta |
| Yan Zhang | Team Leader - Organics | Organics, Edmonton, Alberta |

## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

| *Unit* | *Description* |
|---|---|
| - | no units |
| % | percent |
| mg/L | milligrams per litre |
| pH units | pH units |
| psu | practical salinity units |
| µg/L | micrograms per litre |
| µS/cm | microsiemens per centimetre |

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

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

| *Qualifier* | Description |
|---|---|
| NR:SNA | No Result: Surrogate Not Added |
| SHMI | Surrogate recovery was outside ALS DQO (High) due to Matrix Interference |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| | | | | | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Physical Tests** | | | | | | | | | | |
| **Alkalinity, bicarbonate (as HCO3)** | 71-52-3 | E290/EO | 1.2 | mg/L | | 48.7 | 40.0 | 34.6 | ---- | ---- |
| **Alkalinity, carbonate (as CO3)** | 3812-32-6 | E290/EO | 1.0 | mg/L | | <0.6 | <0.6 | <0.6 | ---- | ---- |
| **Alkalinity, hydroxide (as OH)** | 14280-30-9 | E290/EO | 1.0 | mg/L | | <0.3 | <0.3 | <0.3 | ---- | ---- |
| **Alkalinity, total (as CaCO3)** | ---- | E290/EO | 1.0 | mg/L | | 39.9 | 32.8 | 28.4 | ---- | ---- |
| **Conductivity** | ---- | E100/EO | 1.0 | µS/cm | | 154 | 85.8 | 75.1 | ---- | ---- |
| **Hardness (as CaCO3), dissolved** | ---- | EC100/EO | 0.50 | mg/L | | 38.1 | 35.2 | 30.1 | ---- | ---- |
| **pH** | ---- | E108/EO | 0.10 | pH units | | 7.54 | 7.49 | 7.47 | ---- | ---- |
| **Salinity** | ---- | EC100S/VA | 1.0 | psu | | <1.0 | <1.0 | <1.0 | ---- | ---- |
| **Solids, total dissolved [TDS], calculated** | ---- | EC103/EO | 1.0 | mg/L | | 80.9 | 48.4 | 42.7 | ---- | ---- |
| **Anions and Nutrients** | | | | | | | | | | |
| **Chloride** | 16887-00-6 | E235.Cl/EO | 0.50 | mg/L | | 21.2 | 3.60 | 3.16 | ---- | ---- |
| **Fluoride** | 16984-48-8 | E235.F/EO | 0.020 | mg/L | | 0.022 | 0.063 | 0.055 | ---- | ---- |
| **Nitrate (as N)** | 14797-55-8 | E235.NO3/EO | 0.020 | mg/L | | <0.020 | <0.020 | <0.020 | ---- | ---- |
| **Nitrate + Nitrite (as N)** | ---- | EC235.N+N/EO | 0.0032 | mg/L | | <0.022 | <0.022 | <0.022 | ---- | ---- |
| **Nitrite (as N)** | 14797-65-0 | E235.NO2/EO | 0.010 | mg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Sulfate (as SO4)** | 14808-79-8 | E235.SO4/EO | 0.30 | mg/L | | 3.59 | 4.01 | 2.84 | ---- | ---- |
| **Total Sulfides** | | | | | | | | | | |
| **Sulfide, total (as S)** | 18496-25-8 | E395/CG | 0.0015 | mg/L | | <0.0015 | <0.0015 | <0.0015 | ---- | ---- |
| **Sulfide, total (as H2S)** | 7783-06-4 | E395/CG | 0.0016 | mg/L | | <0.0016 | <0.0016 | <0.0016 | ---- | ---- |

## Analytical Results

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

| | | | | | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Metals** | | | | | | | | | | |
| **Sodium adsorption ratio [SAR]** | ---- | EC102A/EO | 0.10 | - | | 1.03 | 0.25 | 0.23 | ---- | ---- |
| **Ion Balance** | | | | | | | | | | |
| **Ion balance (cations/anions)** | ---- | EC101/EO | 0.010 | % | | 97.3 | 105 | 104 | ---- | ---- |
| **Total Metals** | | | | | | | | | | |
| **Aluminum, total** | 7429-90-5 | E420/EO | 0.0030 | mg/L | | 0.789 | 0.163 | 1.15 | ---- | ---- |
| **Antimony, total** | 7440-36-0 | E420/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Arsenic, total** | 7440-38-2 | E420/EO | 0.00010 | mg/L | | 0.00017 | 0.00038 | 0.00140 | ---- | ---- |
| **Barium, total** | 7440-39-3 | E420/EO | 0.00010 | mg/L | | 0.0185 | 0.0209 | 0.0357 | ---- | ---- |
| **Beryllium, total** | 7440-41-7 | E420/EO | 0.000020 | mg/L | | <0.000020 | <0.000020 | 0.000089 | ---- | ---- |
| **Bismuth, total** | 7440-69-9 | E420/EO | 0.000050 | mg/L | | <0.000050 | <0.000050 | <0.000050 | ---- | ---- |
| **Boron, total** | 7440-42-8 | E420/EO | 0.010 | mg/L | | 0.016 | 0.016 | 0.017 | ---- | ---- |
| **Cadmium, total** | 7440-43-9 | E420/EO | 0.0000050 | mg/L | | <0.0000050 | 0.0000073 | 0.0000424 | ---- | ---- |
| **Calcium, total** | 7440-70-2 | E420/EO | 0.050 | mg/L | | 10.7 | 9.32 | 8.77 | ---- | ---- |
| **Cesium, total** | 7440-46-2 | E420/EO | 0.000010 | mg/L | | <0.000010 | 0.000034 | 0.000385 | ---- | ---- |
| **Chromium, total** | 7440-47-3 | E420/EO | 0.00050 | mg/L | | <0.00050 | <0.00050 | 0.00199 | ---- | ---- |
| **Cobalt, total** | 7440-48-4 | E420/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | 0.00097 | ---- | ---- |
| **Copper, total** | 7440-50-8 | E420/EO | 0.00050 | mg/L | | 0.00078 | 0.00089 | 0.00389 | ---- | ---- |
| **Iron, total** | 7439-89-6 | E420/EO | 0.010 | mg/L | | <0.010 | 0.243 | 2.61 | ---- | ---- |
| **Lead, total** | 7439-92-1 | E420/EO | 0.000050 | mg/L | | <0.000050 | 0.000159 | 0.00181 | ---- | ---- |
| **Lithium, total** | 7439-93-2 | E420/EO | 0.0010 | mg/L | | 0.0031 | 0.0031 | 0.0046 | ---- | ---- |

## Analytical Results

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

| | | | | | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Total Metals** | | | | | | | | | | |
| **Magnesium, total** | 7439-95-4 | E420/EO | 0.0050 | mg/L | | 3.03 | 3.01 | 2.87 | ---- | ---- |
| **Manganese, total** | 7439-96-5 | E420/EO | 0.00010 | mg/L | | 0.00052 | 0.00711 | 0.0632 | ---- | ---- |
| **Molybdenum, total** | 7439-98-7 | E420/EO | 0.000050 | mg/L | | 0.000177 | 0.000229 | 0.000250 | ---- | ---- |
| **Nickel, total** | 7440-02-0 | E420/EO | 0.00050 | mg/L | | <0.00050 | 0.00061 | 0.00307 | ---- | ---- |
| **Phosphorus, total** | 7723-14-0 | E420/EO | 0.050 | mg/L | | <0.050 | <0.050 | 0.095 | ---- | ---- |
| **Potassium, total** | 7440-09-7 | E420/EO | 0.050 | mg/L | | 0.865 | 0.937 | 1.17 | ---- | ---- |
| **Rubidium, total** | 7440-17-7 | E420/EO | 0.00020 | mg/L | | 0.00089 | 0.00125 | 0.00440 | ---- | ---- |
| **Selenium, total** | 7782-49-2 | E420/EO | 0.000050 | mg/L | | <0.000050 | 0.000061 | 0.000092 | ---- | ---- |
| **Silicon, total** | 7440-21-3 | E420/EO | 0.10 | mg/L | | 1.30 | 2.04 | 4.30 | ---- | ---- |
| **Silver, total** | 7440-22-4 | E420/EO | 0.000010 | mg/L | | <0.000010 | <0.000010 | 0.000020 | ---- | ---- |
| **Sodium, total** | 7440-23-5 | E420/EO | 0.050 | mg/L | | 16.0 | 3.40 | 3.00 | ---- | ---- |
| **Strontium, total** | 7440-24-6 | E420/EO | 0.00020 | mg/L | | 0.0680 | 0.0651 | 0.0629 | ---- | ---- |
| **Sulfur, total** | 7704-34-9 | E420/EO | 0.50 | mg/L | | 1.73 | 1.82 | 1.35 | ---- | ---- |
| **Tellurium, total** | 13494-80-9 | E420/EO | 0.00020 | mg/L | | <0.00020 | <0.00020 | <0.00020 | ---- | ---- |
| **Thallium, total** | 7440-28-0 | E420/EO | 0.000010 | mg/L | | <0.000010 | <0.000010 | 0.000036 | ---- | ---- |
| **Thorium, total** | 7440-29-1 | E420/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | 0.00025 | ---- | ---- |
| **Tin, total** | 7440-31-5 | E420/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Titanium, total** | 7440-32-6 | E420/EO | 0.00030 | mg/L | | <0.00030 | 0.00475 | 0.0263 | ---- | ---- |
| **Tungsten, total** | 7440-33-7 | E420/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Uranium, total** | 7440-61-1 | E420/EO | 0.000010 | mg/L | | <0.000010 | 0.000055 | 0.000170 | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| | | | | | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Total Metals** | | | | | | | | | | |
| **Vanadium, total** | 7440-62-2 | E420/EO | 0.00050 | mg/L | | <0.00050 | 0.00071 | 0.00393 | ---- | ---- |
| **Zinc, total** | 7440-66-6 | E420/EO | 0.0030 | mg/L | | <0.0030 | <0.0030 | 0.0213 | ---- | ---- |
| **Zirconium, total** | 7440-67-7 | E420/EO | 0.00020 | mg/L | | <0.00020 | <0.00020 | 0.00047 | ---- | ---- |
| **Dissolved Metals** | | | | | | | | | | |
| **Aluminum, dissolved** | 7429-90-5 | E421/EO | 0.0010 | mg/L | | 0.0740 | 0.0079 | 0.0074 | ---- | ---- |
| **Antimony, dissolved** | 7440-36-0 | E421/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | 0.00014 | ---- | ---- |
| **Arsenic, dissolved** | 7440-38-2 | E421/EO | 0.00010 | mg/L | | 0.00014 | 0.00024 | 0.00019 | ---- | ---- |
| **Barium, dissolved** | 7440-39-3 | E421/EO | 0.00010 | mg/L | | 0.0188 | 0.0183 | 0.0154 | ---- | ---- |
| **Beryllium, dissolved** | 7440-41-7 | E421/EO | 0.000020 | mg/L | | <0.000020 | <0.000020 | <0.000020 | ---- | ---- |
| **Bismuth, dissolved** | 7440-69-9 | E421/EO | 0.000050 | mg/L | | <0.000050 | <0.000050 | <0.000050 | ---- | ---- |
| **Boron, dissolved** | 7440-42-8 | E421/EO | 0.010 | mg/L | | 0.014 | 0.015 | 0.014 | ---- | ---- |
| **Cadmium, dissolved** | 7440-43-9 | E421/EO | 0.0000050 | mg/L | | <0.0000050 | <0.0000050 | <0.0000050 | ---- | ---- |
| **Calcium, dissolved** | 7440-70-2 | E421/EO | 0.050 | mg/L | | 10.5 | 9.29 | 7.93 | ---- | ---- |
| **Cesium, dissolved** | 7440-46-2 | E421/EO | 0.000010 | mg/L | | <0.000010 | <0.000010 | <0.000010 | ---- | ---- |
| **Chromium, dissolved** | 7440-47-3 | E421/EO | 0.00050 | mg/L | | <0.00050 | <0.00050 | <0.00050 | ---- | ---- |
| **Cobalt, dissolved** | 7440-48-4 | E421/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Copper, dissolved** | 7440-50-8 | E421/EO | 0.00020 | mg/L | | 0.00063 | 0.00072 | 0.00127 | ---- | ---- |
| **Iron, dissolved** | 7439-89-6 | E421/EO | 0.010 | mg/L | | <0.010 | 0.013 | <0.010 | ---- | ---- |
| **Lead, dissolved** | 7439-92-1 | E421/EO | 0.000050 | mg/L | | <0.000050 | <0.000050 | <0.000050 | ---- | ---- |
| **Lithium, dissolved** | 7439-93-2 | E421/EO | 0.0010 | mg/L | | 0.0026 | 0.0028 | 0.0028 | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| | | | | | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Dissolved Metals** | | | | | | | | | | |
| **Magnesium, dissolved** | 7439-95-4 | E421/EO | 0.0050 | mg/L | | 2.88 | 2.91 | 2.49 | ---- | ---- |
| **Manganese, dissolved** | 7439-96-5 | E421/EO | 0.00010 | mg/L | | 0.00029 | 0.00072 | 0.00162 | ---- | ---- |
| **Molybdenum, dissolved** | 7439-98-7 | E421/EO | 0.000050 | mg/L | | 0.000213 | 0.000237 | 0.000219 | ---- | ---- |
| **Nickel, dissolved** | 7440-02-0 | E421/EO | 0.00050 | mg/L | | <0.00050 | <0.00050 | <0.00050 | ---- | ---- |
| **Phosphorus, dissolved** | 7723-14-0 | E421/EO | 0.050 | mg/L | | <0.050 | <0.050 | <0.050 | ---- | ---- |
| **Potassium, dissolved** | 7440-09-7 | E421/EO | 0.050 | mg/L | | 0.859 | 0.872 | 0.826 | ---- | ---- |
| **Rubidium, dissolved** | 7440-17-7 | E421/EO | 0.00020 | mg/L | | 0.00084 | 0.00090 | 0.00083 | ---- | ---- |
| **Selenium, dissolved** | 7782-49-2 | E421/EO | 0.000050 | mg/L | | 0.000119 | 0.000053 | 0.000050 | ---- | ---- |
| **Silicon, dissolved** | 7440-21-3 | E421/EO | 0.050 | mg/L | | 1.21 | 1.65 | 1.99 | ---- | ---- |
| **Silver, dissolved** | 7440-22-4 | E421/EO | 0.000010 | mg/L | | <0.000010 | <0.000010 | <0.000010 | ---- | ---- |
| **Sodium, dissolved** | 7440-23-5 | E421/EO | 0.050 | mg/L | | 14.6 | 3.46 | 2.92 | ---- | ---- |
| **Strontium, dissolved** | 7440-24-6 | E421/EO | 0.00020 | mg/L | | 0.0639 | 0.0640 | 0.0571 | ---- | ---- |
| **Sulfur, dissolved** | 7704-34-9 | E421/EO | 0.50 | mg/L | | 1.60 | 1.72 | 1.36 | ---- | ---- |
| **Tellurium, dissolved** | 13494-80-9 | E421/EO | 0.00020 | mg/L | | <0.00020 | <0.00020 | <0.00020 | ---- | ---- |
| **Thallium, dissolved** | 7440-28-0 | E421/EO | 0.000010 | mg/L | | <0.000010 | <0.000010 | <0.000010 | ---- | ---- |
| **Thorium, dissolved** | 7440-29-1 | E421/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Tin, dissolved** | 7440-31-5 | E421/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Titanium, dissolved** | 7440-32-6 | E421/EO | 0.00030 | mg/L | | <0.00030 | <0.00030 | 0.00035 | ---- | ---- |
| **Tungsten, dissolved** | 7440-33-7 | E421/EO | 0.00010 | mg/L | | <0.00010 | <0.00010 | <0.00010 | ---- | ---- |
| **Uranium, dissolved** | 7440-61-1 | E421/EO | 0.000010 | mg/L | | <0.000010 | 0.000035 | 0.000025 | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| | | | | | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Dissolved Metals** | | | | | | | | | | |
| **Vanadium, dissolved** | 7440-62-2 | E421/EO | 0.00050 | mg/L | | <0.00050 | <0.00050 | <0.00050 | ---- | ---- |
| **Zinc, dissolved** | 7440-66-6 | E421/EO | 0.0010 | mg/L | | 0.0012 | 0.0021 | 0.0089 | ---- | ---- |
| **Zirconium, dissolved** | 7440-67-7 | E421/EO | 0.00020 | mg/L | | <0.00020 | <0.00020 | <0.00020 | ---- | ---- |
| **Dissolved metals filtration location** | ---- | EP421/EO | - | - | | Field | Field | Field | ---- | ---- |
| **Aggregate Organics** | | | | | | | | | | |
| **Naphthenic acids** | ---- | E565/EO | 1.0 | mg/L | | <1.0 | <1.0 | <1.0 | ---- | ---- |
| **Volatile Organic Compounds [Fuels]** | | | | | | | | | | |
| **Benzene** | 71-43-2 | E611A/EO | 0.50 | µg/L | | <0.50 | <0.50 | <0.50 | ---- | ---- |
| **Ethylbenzene** | 100-41-4 | E611A/EO | 0.50 | µg/L | | <0.50 | <0.50 | <0.50 | ---- | ---- |
| **Methyl-tert-butyl ether [MTBE]** | 1634-04-4 | E611A/EO | 0.50 | µg/L | | <0.50 | <0.50 | <0.50 | ---- | ---- |
| **Styrene** | 100-42-5 | E611A/EO | 0.50 | µg/L | | <0.50 | <0.50 | <0.50 | ---- | ---- |
| **Toluene** | 108-88-3 | E611A/EO | 0.50 | µg/L | | <0.50 | <0.50 | <0.50 | ---- | ---- |
| **Xylene, m+p-** | 179601-23-1 | E611A/EO | 0.40 | µg/L | | <0.40 | <0.40 | <0.40 | ---- | ---- |
| **Xylene, o-** | 95-47-6 | E611A/EO | 0.30 | µg/L | | <0.30 | <0.30 | <0.30 | ---- | ---- |
| **Xylenes, total** | 1330-20-7 | E611A/EO | 0.50 | µg/L | | <0.50 | <0.50 | <0.50 | ---- | ---- |
| **BTEX, total** | ---- | E611A/EO | 1.0 | µg/L | | <1.0 | <1.0 | <1.0 | ---- | ---- |
| **Hydrocarbons** | | | | | | | | | | |
| **F1 (C6-C10)** | ---- | E581.F1/EO | 100 | µg/L | | <100 | <100 | <100 | ---- | ---- |
| **F1-BTEX** | ---- | EC580/EO | 25 | µg/L | | <100 | <100 | <100 | ---- | ---- |
| **F2 (C10-C16)** | ---- | E601/EO | 100 | µg/L | | <100 | <100 | <100 | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| | | | | | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Hydrocarbons** | | | | | | | | | | |
| **F3 (C16-C34)** | ---- | E601/EO | 250 | µg/L | | <250 | <250 | <250 | ---- | ---- |
| **F4 (C34-C50)** | ---- | E601/EO | 250 | µg/L | | <250 | <250 | <250 | ---- | ---- |
| **Hydrocarbons, total (C6-C50)** | n/a | EC581/EO | 370 | µg/L | | <380 | <380 | <380 | ---- | ---- |
| **TEH (C10-C50)** | n/a | E601/EO | 400 | µg/L | | <400 | <400 | <400 | ---- | ---- |
| **TEH (C16-C50)** | ---- | E601/EO | 400 | µg/L | | <400 | <400 | <400 | ---- | ---- |
| **Hydrocarbons Surrogates** | | | | | | | | | | |
| **Bromobenzotrifluoride, 2- (F2-F4 surrogate)** | 392-83-6 | E601/EO | 1.0 | % | | 0.6 NR:SNA | 109 | 119 | ---- | ---- |
| **Dichlorotoluene, 3,4-** | 95-75-0 | E581.F1/EO | 1.0 | % | | 100 | 95.1 | 97.0 | ---- | ---- |
| **Volatile Organic Compounds Surrogates** | | | | | | | | | | |
| **Bromofluorobenzene, 4-** | 460-00-4 | E611A/EO | 1.0 | % | | 105 | 124 | 116 | ---- | ---- |
| **Difluorobenzene, 1,4-** | 540-36-3 | E611A/EO | 1.0 | % | | 103 | 101 | 105 | ---- | ---- |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | | | |
| **Acenaphthene** | 83-32-9 | E641A/EO | 0.010 | µg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Acenaphthylene** | 208-96-8 | E641A/EO | 0.010 | µg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Acridine** | 260-94-6 | E641A/EO | 0.010 | µg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Anthracene** | 120-12-7 | E641A/EO | 0.010 | µg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Benz(a)anthracene** | 56-55-3 | E641A/EO | 0.010 | µg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Benzo(a)pyrene** | 50-32-8 | E641A/EO | 0.0050 | µg/L | | <0.0050 | <0.0050 | <0.0050 | ---- | ---- |
| **Benzo(b+j)fluoranthene** | n/a | E641A/EO | 0.010 | µg/L | | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Benzo(b+j+k)fluoranthene** | n/a | E641A/EO | 0.015 | µg/L | | <0.015 | <0.015 | <0.015 | ---- | ---- |

## Analytical Results

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

| Analyte | CAS Number | Method/Lab | LOR | Unit | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|
| *Client sampling date / time* | | | | | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| | | | | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | Result | Result | Result | ---- | ---- |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | | |
| **Benzo(e)pyrene** | 192-97-2 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Benzo(g,h,i)perylene** | 191-24-2 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Benzo(k)fluoranthene** | 207-08-9 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Chrysene** | 218-01-9 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Dibenz(a,h)anthracene** | 53-70-3 | E641A/EO | 0.0050 | µg/L | <0.0050 | <0.0050 | <0.0050 | ---- | ---- |
| **Fluoranthene** | 206-44-0 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Fluorene** | 86-73-7 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Indeno(1,2,3-c,d)pyrene** | 193-39-5 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Methylnaphthalene, 1-** | 90-12-0 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Methylnaphthalene, 1+2-** | ---- | E641A/EO | 0.015 | µg/L | <0.015 | <0.015 | <0.015 | ---- | ---- |
| **Methylnaphthalene, 2-** | 91-57-6 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Naphthalene** | 91-20-3 | E641A/EO | 0.050 | µg/L | <0.050 | <0.050 | <0.050 | ---- | ---- |
| **Perylene** | 198-55-0 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Phenanthrene** | 85-01-8 | E641A/EO | 0.020 | µg/L | <0.020 | <0.020 | <0.020 | ---- | ---- |
| **Pyrene** | 129-00-0 | E641A/EO | 0.010 | µg/L | <0.010 | <0.010 | <0.010 | ---- | ---- |
| **Quinoline** | 91-22-5 | E641A/EO | 0.050 | µg/L | <0.050 | <0.050 | <0.050 | ---- | ---- |
| **B(a)P total potency equivalents [B(a)P TPE]** | ---- | E641A/EO | 0.010 | µg/L | <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 | ---- | ---- |
| **PAHs, low molecular weight (BC AWQ)** | n/a | E641A/EO | 0.060 | µg/L | <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 | ---- | ---- |

## Analytical Results

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

| | | | | | Client sample ID | Treated Water - Entering Distribution ---- | Raw Water - WTP Chamber Tap ---- | Raw Water - Intake ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Client sampling date / time | 31-Oct-2025 14:15 | 31-Oct-2025 15:30 | 31-Oct-2025 14:00 | ---- | ---- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | | FC2503153-001 | FC2503153-002 | FC2503153-003 | ---- | ---- |
| | | | | | | Result | Result | Result | ---- | ---- |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | | | |
| **PAHs, total (EPA 16)** | n/a | E641A/EO | 0.065 | µg/L | | <0.065 | <0.065 | <0.065 | ---- | ---- |
| **PAHs, total (P2MMP)** | n/a | E641A/EO | 0.040 | µg/L | | <0.040 | <0.040 | <0.040 | ---- | ---- |
| **Polycyclic Aromatic Hydrocarbons Surrogates** | | | | | | | | | | |
| **Chrysene-d12** | 1719-03-5 | E641A/EO | 0.1 | % | | 0.9 | 122 | 132 SHMI | ---- | ---- |
| **Naphthalene-d8** | 1146-65-2 | E641A/EO | 0.1 | % | | 0.7 NR:SNA | 112 | 121 | ---- | ---- |
| **Phenanthrene-d10** | 1517-22-2 | E641A/EO | 0.1 | % | | 0.5 NR:SNA | 127 | 137 SHMI | ---- | ---- |
| **DIsinfectant By-Products** | | | | | | | | | | |
| **Chlorate** | 14866-68-3 | E409.CLO3/WT | 0.010 | mg/L | | 0.104 | <0.010 | <0.010 | ---- | ---- |

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

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Work Order** | : **FC2503153** | Page | : 1 of 14 |
| Client | : **Regional Municipality of Wood Buffalo** | Laboratory | : ALS Environmental - Fort McMurray |
| Contact | : Water Treatment Plant | Account Manager | : Megha Walia |
| Address | : 1 Silin Forest Road<br>Fort Mcmurray AB Canada T9H 5A1 | Address | : #4, 340 Macalpine Crescent<br>Fort McMurray AB Canada T9H 4A8 |
| Telephone | : 780-762-5863 | Telephone | : +1 780 791 1524 |
| Project | : Fort Chipewyan Imperial Release | Date Samples Received | : 01-Nov-2025 09:30 |
| PO | : 4500060925 | Date Analysis Commenced | : 01-Nov-2025 |
| C-O-C number | : ---- | Issue Date | : 05-Nov-2025 16:47 |
| Sampler | : EA | | |
| Site | : ---- | | |
| Quote number | : Water Treatment Plant | | |
| No. of samples received | : 3 | | |
| No. of samples analysed | : 3 | | |

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 |
| Dan Nguyen | Team Leader - Inorganics | Metals, Edmonton, Alberta |
| Daniel Nguyen | Laboratory Analyst | Metals, Edmonton, Alberta |
| Kari Mulroy | Lab Supervisor - Environmental | Organics, Edmonton, Alberta |
| Monica Ko | Supervisor - Inorganic | Inorganics, Burnaby, British Columbia |
| Nik Perkio | Senior Analyst | Inorganics, Waterloo, Ontario |
| Shirley Li | Team Leader - Inorganics | Inorganics, Calgary, Alberta |
| Shruti Mudliar | Lab Analyst | Inorganics, Edmonton, Alberta |
| Yan Zhang | Team Leader - Organics | Organics, Edmonton, Alberta |

## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).
Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.
Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

| *Unit* | *Description* |
|---|---|
| - | no units |
| % | percent |
| µg/L | micrograms per litre |
| µS/cm | microsiemens per centimetre |
| mg/L | milligrams per litre |
| pH units | pH units |
| psu | practical salinity units |

>: greater than.
<: less than.

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

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

## Qualifiers

| *Qualifier* | *Description* |
|---|---|
| *NR:SNA* | *No Result: Surrogate Not Added* |
| *SHMI* | *Surrogate recovery was outside ALS DQO (High) due to Matrix Interference* |

## Analytical Results

FC2503153-001

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

*Client sample ID:* Treated Water - Entering Distribution
*Client sampling date / time:* 31-Oct-2025 14:15

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Physical Tests** | | | | | | | | |
| **Alkalinity, bicarbonate (as HCO3)** | 71-52-3 | 48.7 | 1.2 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, carbonate (as CO3)** | 3812-32-6 | <0.6 | 0.6 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, hydroxide (as OH)** | 14280-30-9 | <0.3 | 0.3 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, total (as CaCO3)** | ---- | 39.9 | 1.0 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Conductivity** | ---- | 154 | 1.0 | µS/cm | E100/EO | 01-Nov-2025 | 01-Nov-2025 | 2313310 |
| **Hardness (as CaCO3), dissolved** | ---- | 38.1 | 0.50 | mg/L | EC100/EO | - | 03-Nov-2025 | - |
| **pH** | ---- | 7.54 | 0.10 | pH units | E108/EO | 01-Nov-2025 | 01-Nov-2025 | 2313309 |
| **Salinity** | ---- | <1.0 | 1.0 | psu | EC100S/VA | - | 05-Nov-2025 | - |
| **Solids, total dissolved [TDS], calculated** | ---- | 80.9 | 1.0 | mg/L | EC103/EO | - | 03-Nov-2025 | - |
| **Anions and Nutrients** | | | | | | | | |
| **Chloride** | 16887-00-6 | 21.2 | 0.50 | mg/L | E235.Cl/EO | 01-Nov-2025 | 01-Nov-2025 | 2313121 |
| **Fluoride** | 16984-48-8 | 0.022 | 0.020 | mg/L | E235.F/EO | 01-Nov-2025 | 01-Nov-2025 | 2313118 |
| **Nitrate (as N)** | 14797-55-8 | <0.020 | 0.020 | mg/L | E235.NO3/EO | 01-Nov-2025 | 01-Nov-2025 | 2313119 |
| **Nitrate + Nitrite (as N)** | ---- | <0.022 | 0.022 | mg/L | EC235.N+N/EO | - | 04-Nov-2025 | - |
| **Nitrite (as N)** | 14797-65-0 | <0.010 | 0.010 | mg/L | E235.NO2/EO | 01-Nov-2025 | 01-Nov-2025 | 2313120 |
| **Sulfate (as SO4)** | 14808-79-8 | 3.59 | 0.30 | mg/L | E235.SO4/EO | 01-Nov-2025 | 01-Nov-2025 | 2313122 |
| **Total Sulfides** | | | | | | | | |
| **Sulfide, total (as S)** | 18496-25-8 | <0.0015 | 0.0015 | mg/L | E395/CG | - | 03-Nov-2025 | 2314718 |
| **Sulfide, total (as H2S)** | 7783-06-4 | <0.0016 | 0.0016 | mg/L | E395/CG | - | 03-Nov-2025 | 2314718 |
| **Metals** | | | | | | | | |
| **Sodium adsorption ratio [SAR]** | ---- | 1.03 | 0.10 | - | EC102A/EO | - | 03-Nov-2025 | - |
| **Ion Balance** | | | | | | | | |
| **Ion balance (cations/anions)** | ---- | 97.3 | 0.010 | % | EC101/EO | - | 03-Nov-2025 | - |
| **Total Metals** | | | | | | | | |
| **Aluminum, total** | 7429-90-5 | 0.789 | 0.0030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Antimony, total** | 7440-36-0 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Arsenic, total** | 7440-38-2 | 0.00017 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Barium, total** | 7440-39-3 | 0.0185 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Beryllium, total** | 7440-41-7 | <0.000020 | 0.000020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Bismuth, total** | 7440-69-9 | <0.000050 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Boron, total** | 7440-42-8 | 0.016 | 0.010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cadmium, total** | 7440-43-9 | <0.0000050 | 0.0000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Calcium, total** | 7440-70-2 | 10.7 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cesium, total** | 7440-46-2 | <0.000010 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Chromium, total** | 7440-47-3 | <0.00050 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cobalt, total** | 7440-48-4 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Copper, total** | 7440-50-8 | 0.00078 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Iron, total** | 7439-89-6 | <0.010 | 0.010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Lead, total** | 7439-92-1 | <0.000050 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Lithium, total** | 7439-93-2 | 0.0031 | 0.0010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Magnesium, total** | 7439-95-4 | 3.03 | 0.0050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Manganese, total** | 7439-96-5 | 0.00052 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Molybdenum, total** | 7439-98-7 | 0.000177 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Nickel, total** | 7440-02-0 | <0.00050 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Phosphorus, total** | 7723-14-0 | <0.050 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |

## Analytical Results

FC2503153-001

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

*Client sample ID:* Treated Water - Entering Distribution
*Client sampling date / time:* 31-Oct-2025 14:15

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | | |
| **Potassium, total** | 7440-09-7 | 0.865 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Rubidium, total** | 7440-17-7 | 0.00089 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Selenium, total** | 7782-49-2 | <0.000050 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Silicon, total** | 7440-21-3 | 1.30 | 0.10 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Silver, total** | 7440-22-4 | <0.000010 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Sodium, total** | 7440-23-5 | 16.0 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Strontium, total** | 7440-24-6 | 0.0680 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Sulfur, total** | 7704-34-9 | 1.73 | 0.50 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tellurium, total** | 13494-80-9 | <0.00020 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Thallium, total** | 7440-28-0 | <0.000010 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Thorium, total** | 7440-29-1 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tin, total** | 7440-31-5 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Titanium, total** | 7440-32-6 | <0.00030 | 0.00030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tungsten, total** | 7440-33-7 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Uranium, total** | 7440-61-1 | <0.000010 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Vanadium, total** | 7440-62-2 | <0.00050 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Zinc, total** | 7440-66-6 | <0.0030 | 0.0030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Zirconium, total** | 7440-67-7 | <0.00020 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Dissolved Metals** | | | | | | | | |
| **Aluminum, dissolved** | 7429-90-5 | 0.0740 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Antimony, dissolved** | 7440-36-0 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Arsenic, dissolved** | 7440-38-2 | 0.00014 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Barium, dissolved** | 7440-39-3 | 0.0188 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Beryllium, dissolved** | 7440-41-7 | <0.000020 | 0.000020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Bismuth, dissolved** | 7440-69-9 | <0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Boron, dissolved** | 7440-42-8 | 0.014 | 0.010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cadmium, dissolved** | 7440-43-9 | <0.0000050 | 0.0000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Calcium, dissolved** | 7440-70-2 | 10.5 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cesium, dissolved** | 7440-46-2 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Chromium, dissolved** | 7440-47-3 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cobalt, dissolved** | 7440-48-4 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Copper, dissolved** | 7440-50-8 | 0.00063 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Iron, dissolved** | 7439-89-6 | <0.010 | 0.010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Lead, dissolved** | 7439-92-1 | <0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Lithium, dissolved** | 7439-93-2 | 0.0026 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Magnesium, dissolved** | 7439-95-4 | 2.88 | 0.0050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Manganese, dissolved** | 7439-96-5 | 0.00029 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Molybdenum, dissolved** | 7439-98-7 | 0.000213 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Nickel, dissolved** | 7440-02-0 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Phosphorus, dissolved** | 7723-14-0 | <0.050 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Potassium, dissolved** | 7440-09-7 | 0.859 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Rubidium, dissolved** | 7440-17-7 | 0.00084 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Selenium, dissolved** | 7782-49-2 | 0.000119 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Silicon, dissolved** | 7440-21-3 | 1.21 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Silver, dissolved** | 7440-22-4 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |

## Analytical Results

FC2503153-001

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

*Client sample ID:* Treated Water - Entering Distribution
*Client sampling date / time:* 31-Oct-2025 14:15

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | | | |
| **Sodium, dissolved** | 7440-23-5 | 14.6 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Strontium, dissolved** | 7440-24-6 | 0.0639 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Sulfur, dissolved** | 7704-34-9 | 1.60 | 0.50 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tellurium, dissolved** | 13494-80-9 | <0.00020 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Thallium, dissolved** | 7440-28-0 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Thorium, dissolved** | 7440-29-1 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tin, dissolved** | 7440-31-5 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Titanium, dissolved** | 7440-32-6 | <0.00030 | 0.00030 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tungsten, dissolved** | 7440-33-7 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Uranium, dissolved** | 7440-61-1 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Vanadium, dissolved** | 7440-62-2 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Zinc, dissolved** | 7440-66-6 | 0.0012 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Zirconium, dissolved** | 7440-67-7 | <0.00020 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Dissolved metals filtration location** | ---- | Field | - | - | EP421/EO | - | 01-Nov-2025 | 2313191 |
| **Aggregate Organics** | | | | | | | | |
| **Naphthenic acids** | ---- | <1.0 | 1.0 | mg/L | E565/EO | 03-Nov-2025 | 04-Nov-2025 | 2315094 |
| **Volatile Organic Compounds [Fuels]** | | | | | | | | |
| **Benzene** | 71-43-2 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Ethylbenzene** | 100-41-4 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Methyl-tert-butyl ether [MTBE]** | 1634-04-4 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Styrene** | 100-42-5 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Toluene** | 108-88-3 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylene, m+p-** | 179601-23-1 | <0.40 | 0.40 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylene, o-** | 95-47-6 | <0.30 | 0.30 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylenes, total** | 1330-20-7 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **BTEX, total** | ---- | <1.0 | 1.0 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Hydrocarbons** | | | | | | | | |
| **F1 (C6-C10)** | ---- | <100 | 100 | µg/L | E581.F1/EO | 02-Nov-2025 | 02-Nov-2025 | 2313039 |
| **F1-BTEX** | ---- | <100 | 100 | µg/L | EC580/EO | - | 02-Nov-2025 | - |
| **F2 (C10-C16)** | ---- | <100 | 100 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **F3 (C16-C34)** | ---- | <250 | 250 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **F4 (C34-C50)** | ---- | <250 | 250 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Hydrocarbons, total (C6-C50)** | n/a | <380 | 380 | µg/L | EC581/EO | - | 02-Nov-2025 | - |
| **TEH (C10-C50)** | n/a | <400 | 400 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **TEH (C16-C50)** | ---- | <400 | 400 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Hydrocarbons Surrogates** | | | | | | | | |
| **Bromobenzotrifluoride, 2- (F2-F4 surrogate)** | 392-83-6 | 0.6 NR:SNA | 1.0 | % | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Dichlorotoluene, 3,4-** | 95-75-0 | 100 | 1.0 | % | E581.F1/EO | 02-Nov-2025 | 02-Nov-2025 | 2313039 |
| **Volatile Organic Compounds Surrogates** | | | | | | | | |
| **Bromofluorobenzene, 4-** | 460-00-4 | 105 | 1.0 | % | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Difluorobenzene, 1,4-** | 540-36-3 | 103 | 1.0 | % | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | |
| **Acenaphthene** | 83-32-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Acenaphthylene** | 208-96-8 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Acridine** | 260-94-6 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |

## Analytical Results

FC2503153-001

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

*Client sample ID:* Treated Water - Entering Distribution
*Client sampling date / time:* 31-Oct-2025 14:15

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | |
| **Anthracene** | 120-12-7 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benz(a)anthracene** | 56-55-3 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(a)pyrene** | 50-32-8 | <0.0050 | 0.0050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(b+j)fluoranthene** | n/a | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(b+j+k)fluoranthene** | n/a | <0.015 | 0.015 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(e)pyrene** | 192-97-2 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(g,h,i)perylene** | 191-24-2 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(k)fluoranthene** | 207-08-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Chrysene** | 218-01-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Dibenz(a,h)anthracene** | 53-70-3 | <0.0050 | 0.0050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Fluoranthene** | 206-44-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Fluorene** | 86-73-7 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Indeno(1,2,3-c,d)pyrene** | 193-39-5 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 1-** | 90-12-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 1+2-** | ---- | <0.015 | 0.015 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 2-** | 91-57-6 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Naphthalene** | 91-20-3 | <0.050 | 0.050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Perylene** | 198-55-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Phenanthrene** | 85-01-8 | <0.020 | 0.020 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Pyrene** | 129-00-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Quinoline** | 91-22-5 | <0.050 | 0.050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **B(a)P total potency equivalents [B(a)P TPE]** | ---- | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, high molecular weight (BC AWQ)** | n/a | <0.030 | 0.03 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, low molecular weight (BC AWQ)** | n/a | <0.060 | 0.06 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (CCME sewer 18)** | n/a | <0.070 | 0.07 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (EPA 16)** | n/a | <0.065 | 0.065 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (P2MMP)** | n/a | <0.040 | 0.04 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Polycyclic Aromatic Hydrocarbons Surrogates** | | | | | | | | |
| **Chrysene-d12** | 1719-03-5 | 0.9 | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Naphthalene-d8** | 1146-65-2 | 0.7 NR:SNA | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Phenanthrene-d10** | 1517-22-2 | 0.5 NR:SNA | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **DIsinfectant By-Products** | | | | | | | | |
| **Chlorate** | 14866-68-3 | 0.104 | 0.010 | mg/L | E409.CLO3/WT | 04-Nov-2025 | 04-Nov-2025 | 2316705 |

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

## Analytical Results

FC2503153-002

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

*Client sample ID:* Raw Water - WTP Chamber Tap
*Client sampling date / time:* 31-Oct-2025 15:30

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Physical Tests** | | | | | | | | |
| **Alkalinity, bicarbonate (as HCO3)** | 71-52-3 | 40.0 | 1.2 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, carbonate (as CO3)** | 3812-32-6 | <0.6 | 0.6 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |

## Analytical Results

FC2503153-002

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

*Client sample ID:* Raw Water - WTP Chamber Tap
*Client sampling date / time:* 31-Oct-2025 15:30

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Physical Tests** | | | | | | | | |
| **Alkalinity, hydroxide (as OH)** | 14280-30-9 | <0.3 | 0.3 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, total (as CaCO3)** | ---- | 32.8 | 1.0 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Conductivity** | ---- | 85.8 | 1.0 | µS/cm | E100/EO | 01-Nov-2025 | 01-Nov-2025 | 2313310 |
| **Hardness (as CaCO3), dissolved** | ---- | 35.2 | 0.50 | mg/L | EC100/EO | - | 03-Nov-2025 | - |
| **pH** | ---- | 7.49 | 0.10 | pH units | E108/EO | 01-Nov-2025 | 01-Nov-2025 | 2313309 |
| **Salinity** | ---- | <1.0 | 1.0 | psu | EC100S/VA | - | 05-Nov-2025 | - |
| **Solids, total dissolved [TDS], calculated** | ---- | 48.4 | 1.0 | mg/L | EC103/EO | - | 03-Nov-2025 | - |
| **Anions and Nutrients** | | | | | | | | |
| **Chloride** | 16887-00-6 | 3.60 | 0.50 | mg/L | E235.Cl/EO | 01-Nov-2025 | 01-Nov-2025 | 2313121 |
| **Fluoride** | 16984-48-8 | 0.063 | 0.020 | mg/L | E235.F/EO | 01-Nov-2025 | 01-Nov-2025 | 2313118 |
| **Nitrate (as N)** | 14797-55-8 | <0.020 | 0.020 | mg/L | E235.NO3/EO | 01-Nov-2025 | 01-Nov-2025 | 2313119 |
| **Nitrate + Nitrite (as N)** | ---- | <0.022 | 0.022 | mg/L | EC235.N+N/EO | - | 04-Nov-2025 | - |
| **Nitrite (as N)** | 14797-65-0 | <0.010 | 0.010 | mg/L | E235.NO2/EO | 01-Nov-2025 | 01-Nov-2025 | 2313120 |
| **Sulfate (as SO4)** | 14808-79-8 | 4.01 | 0.30 | mg/L | E235.SO4/EO | 01-Nov-2025 | 01-Nov-2025 | 2313122 |
| **Total Sulfides** | | | | | | | | |
| **Sulfide, total (as S)** | 18496-25-8 | <0.0015 | 0.0015 | mg/L | E395/CG | - | 03-Nov-2025 | 2314718 |
| **Sulfide, total (as H2S)** | 7783-06-4 | <0.0016 | 0.0016 | mg/L | E395/CG | - | 03-Nov-2025 | 2314718 |
| **Metals** | | | | | | | | |
| **Sodium adsorption ratio [SAR]** | ---- | 0.25 | 0.10 | - | EC102A/EO | - | 03-Nov-2025 | - |
| **Ion Balance** | | | | | | | | |
| **Ion balance (cations/anions)** | ---- | 105 | 0.010 | % | EC101/EO | - | 03-Nov-2025 | - |
| **Total Metals** | | | | | | | | |
| **Aluminum, total** | 7429-90-5 | 0.163 | 0.0030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Antimony, total** | 7440-36-0 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Arsenic, total** | 7440-38-2 | 0.00038 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Barium, total** | 7440-39-3 | 0.0209 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Beryllium, total** | 7440-41-7 | <0.000020 | 0.000020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Bismuth, total** | 7440-69-9 | <0.000050 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Boron, total** | 7440-42-8 | 0.016 | 0.010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cadmium, total** | 7440-43-9 | 0.0000073 | 0.0000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Calcium, total** | 7440-70-2 | 9.32 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cesium, total** | 7440-46-2 | 0.000034 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Chromium, total** | 7440-47-3 | <0.00050 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cobalt, total** | 7440-48-4 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Copper, total** | 7440-50-8 | 0.00089 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Iron, total** | 7439-89-6 | 0.243 | 0.010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Lead, total** | 7439-92-1 | 0.000159 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Lithium, total** | 7439-93-2 | 0.0031 | 0.0010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Magnesium, total** | 7439-95-4 | 3.01 | 0.0050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Manganese, total** | 7439-96-5 | 0.00711 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Molybdenum, total** | 7439-98-7 | 0.000229 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Nickel, total** | 7440-02-0 | 0.00061 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Phosphorus, total** | 7723-14-0 | <0.050 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Potassium, total** | 7440-09-7 | 0.937 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Rubidium, total** | 7440-17-7 | 0.00125 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |

## Analytical Results

FC2503153-002

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

*Client sample ID:* Raw Water - WTP Chamber Tap
*Client sampling date / time:* 31-Oct-2025 15:30

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | | |
| **Selenium, total** | 7782-49-2 | 0.000061 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Silicon, total** | 7440-21-3 | 2.04 | 0.10 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Silver, total** | 7440-22-4 | <0.000010 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Sodium, total** | 7440-23-5 | 3.40 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Strontium, total** | 7440-24-6 | 0.0651 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Sulfur, total** | 7704-34-9 | 1.82 | 0.50 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tellurium, total** | 13494-80-9 | <0.00020 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Thallium, total** | 7440-28-0 | <0.000010 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Thorium, total** | 7440-29-1 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tin, total** | 7440-31-5 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Titanium, total** | 7440-32-6 | 0.00475 | 0.00030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tungsten, total** | 7440-33-7 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Uranium, total** | 7440-61-1 | 0.000055 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Vanadium, total** | 7440-62-2 | 0.00071 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Zinc, total** | 7440-66-6 | <0.0030 | 0.0030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Zirconium, total** | 7440-67-7 | <0.00020 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Dissolved Metals** | | | | | | | | |
| **Aluminum, dissolved** | 7429-90-5 | 0.0079 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Antimony, dissolved** | 7440-36-0 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Arsenic, dissolved** | 7440-38-2 | 0.00024 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Barium, dissolved** | 7440-39-3 | 0.0183 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Beryllium, dissolved** | 7440-41-7 | <0.000020 | 0.000020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Bismuth, dissolved** | 7440-69-9 | <0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Boron, dissolved** | 7440-42-8 | 0.015 | 0.010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cadmium, dissolved** | 7440-43-9 | <0.0000050 | 0.0000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Calcium, dissolved** | 7440-70-2 | 9.29 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cesium, dissolved** | 7440-46-2 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Chromium, dissolved** | 7440-47-3 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cobalt, dissolved** | 7440-48-4 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Copper, dissolved** | 7440-50-8 | 0.00072 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Iron, dissolved** | 7439-89-6 | 0.013 | 0.010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Lead, dissolved** | 7439-92-1 | <0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Lithium, dissolved** | 7439-93-2 | 0.0028 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Magnesium, dissolved** | 7439-95-4 | 2.91 | 0.0050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Manganese, dissolved** | 7439-96-5 | 0.00072 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Molybdenum, dissolved** | 7439-98-7 | 0.000237 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Nickel, dissolved** | 7440-02-0 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Phosphorus, dissolved** | 7723-14-0 | <0.050 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Potassium, dissolved** | 7440-09-7 | 0.872 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Rubidium, dissolved** | 7440-17-7 | 0.00090 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Selenium, dissolved** | 7782-49-2 | 0.000053 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Silicon, dissolved** | 7440-21-3 | 1.65 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Silver, dissolved** | 7440-22-4 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Sodium, dissolved** | 7440-23-5 | 3.46 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Strontium, dissolved** | 7440-24-6 | 0.0640 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |

## Analytical Results

FC2503153-002

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

*Client sample ID:* Raw Water - WTP Chamber Tap
*Client sampling date / time:* 31-Oct-2025 15:30

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | | | |
| **Sulfur, dissolved** | 7704-34-9 | 1.72 | 0.50 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tellurium, dissolved** | 13494-80-9 | <0.00020 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Thallium, dissolved** | 7440-28-0 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Thorium, dissolved** | 7440-29-1 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tin, dissolved** | 7440-31-5 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Titanium, dissolved** | 7440-32-6 | <0.00030 | 0.00030 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tungsten, dissolved** | 7440-33-7 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Uranium, dissolved** | 7440-61-1 | 0.000035 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Vanadium, dissolved** | 7440-62-2 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Zinc, dissolved** | 7440-66-6 | 0.0021 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Zirconium, dissolved** | 7440-67-7 | <0.00020 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Dissolved metals filtration location** | ---- | Field | - | - | EP421/EO | - | 01-Nov-2025 | 2313191 |
| **Aggregate Organics** | | | | | | | | |
| **Naphthenic acids** | ---- | <1.0 | 1.0 | mg/L | E565/EO | 03-Nov-2025 | 04-Nov-2025 | 2315094 |
| **Volatile Organic Compounds [Fuels]** | | | | | | | | |
| **Benzene** | 71-43-2 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Ethylbenzene** | 100-41-4 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Methyl-tert-butyl ether [MTBE]** | 1634-04-4 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Styrene** | 100-42-5 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Toluene** | 108-88-3 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylene, m+p-** | 179601-23-1 | <0.40 | 0.40 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylene, o-** | 95-47-6 | <0.30 | 0.30 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylenes, total** | 1330-20-7 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **BTEX, total** | ---- | <1.0 | 1.0 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Hydrocarbons** | | | | | | | | |
| **F1 (C6-C10)** | ---- | <100 | 100 | µg/L | E581.F1/EO | 02-Nov-2025 | 02-Nov-2025 | 2313039 |
| **F1-BTEX** | ---- | <100 | 100 | µg/L | EC580/EO | - | 02-Nov-2025 | - |
| **F2 (C10-C16)** | ---- | <100 | 100 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **F3 (C16-C34)** | ---- | <250 | 250 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **F4 (C34-C50)** | ---- | <250 | 250 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Hydrocarbons, total (C6-C50)** | n/a | <380 | 380 | µg/L | EC581/EO | - | 02-Nov-2025 | - |
| **TEH (C10-C50)** | n/a | <400 | 400 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **TEH (C16-C50)** | ---- | <400 | 400 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Hydrocarbons Surrogates** | | | | | | | | |
| **Bromobenzotrifluoride, 2- (F2-F4 surrogate)** | 392-83-6 | 109 | 1.0 | % | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Dichlorotoluene, 3,4-** | 95-75-0 | 95.1 | 1.0 | % | E581.F1/EO | 02-Nov-2025 | 02-Nov-2025 | 2313039 |
| **Volatile Organic Compounds Surrogates** | | | | | | | | |
| **Bromofluorobenzene, 4-** | 460-00-4 | 124 | 1.0 | % | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Difluorobenzene, 1,4-** | 540-36-3 | 101 | 1.0 | % | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | |
| **Acenaphthene** | 83-32-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Acenaphthylene** | 208-96-8 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Acridine** | 260-94-6 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Anthracene** | 120-12-7 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benz(a)anthracene** | 56-55-3 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |

## Analytical Results

FC2503153-002

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

*Client sample ID:* Raw Water - WTP Chamber Tap
*Client sampling date / time:* 31-Oct-2025 15:30

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | |
| **Benzo(a)pyrene** | 50-32-8 | <0.0050 | 0.0050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(b+j)fluoranthene** | n/a | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(b+j+k)fluoranthene** | n/a | <0.015 | 0.015 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(e)pyrene** | 192-97-2 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(g,h,i)perylene** | 191-24-2 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(k)fluoranthene** | 207-08-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Chrysene** | 218-01-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Dibenz(a,h)anthracene** | 53-70-3 | <0.0050 | 0.0050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Fluoranthene** | 206-44-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Fluorene** | 86-73-7 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Indeno(1,2,3-c,d)pyrene** | 193-39-5 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 1-** | 90-12-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 1+2-** | ---- | <0.015 | 0.015 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 2-** | 91-57-6 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Naphthalene** | 91-20-3 | <0.050 | 0.050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Perylene** | 198-55-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Phenanthrene** | 85-01-8 | <0.020 | 0.020 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Pyrene** | 129-00-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Quinoline** | 91-22-5 | <0.050 | 0.050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **B(a)P total potency equivalents [B(a)P TPE]** | ---- | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, high molecular weight (BC AWQ)** | n/a | <0.030 | 0.03 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, low molecular weight (BC AWQ)** | n/a | <0.060 | 0.06 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (CCME sewer 18)** | n/a | <0.070 | 0.07 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (EPA 16)** | n/a | <0.065 | 0.065 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (P2MMP)** | n/a | <0.040 | 0.04 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Polycyclic Aromatic Hydrocarbons Surrogates** | | | | | | | | |
| **Chrysene-d12** | 1719-03-5 | 122 | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Naphthalene-d8** | 1146-65-2 | 112 | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Phenanthrene-d10** | 1517-22-2 | 127 | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **DIsinfectant By-Products** | | | | | | | | |
| **Chlorate** | 14866-68-3 | <0.010 | 0.010 | mg/L | E409.CLO3/WT | 04-Nov-2025 | 04-Nov-2025 | 2316705 |

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

## Analytical Results

FC2503153-003

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

*Client sample ID:* Raw Water - Intake
*Client sampling date / time:* 31-Oct-2025 14:00

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Physical Tests** | | | | | | | | |
| **Alkalinity, bicarbonate (as HCO3)** | 71-52-3 | 34.6 | 1.2 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, carbonate (as CO3)** | 3812-32-6 | <0.6 | 0.6 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, hydroxide (as OH)** | 14280-30-9 | <0.3 | 0.3 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |
| **Alkalinity, total (as CaCO3)** | ---- | 28.4 | 1.0 | mg/L | E290/EO | 01-Nov-2025 | 01-Nov-2025 | 2313311 |

## Analytical Results

FC2503153-003

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

*Client sample ID:* Raw Water - Intake
*Client sampling date / time:* 31-Oct-2025 14:00

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Physical Tests** | | | | | | | | |
| **Conductivity** | ---- | 75.1 | 1.0 | µS/cm | E100/EO | 01-Nov-2025 | 01-Nov-2025 | 2313310 |
| **Hardness (as CaCO3), dissolved** | ---- | 30.1 | 0.50 | mg/L | EC100/EO | - | 03-Nov-2025 | - |
| **pH** | ---- | 7.47 | 0.10 | pH units | E108/EO | 01-Nov-2025 | 01-Nov-2025 | 2313309 |
| **Salinity** | ---- | <1.0 | 1.0 | psu | EC100S/VA | - | 05-Nov-2025 | - |
| **Solids, total dissolved [TDS], calculated** | ---- | 42.7 | 1.0 | mg/L | EC103/EO | - | 03-Nov-2025 | - |
| **Anions and Nutrients** | | | | | | | | |
| **Chloride** | 16887-00-6 | 3.16 | 0.50 | mg/L | E235.Cl/EO | 01-Nov-2025 | 01-Nov-2025 | 2313217 |
| **Fluoride** | 16984-48-8 | 0.055 | 0.020 | mg/L | E235.F/EO | 01-Nov-2025 | 01-Nov-2025 | 2313214 |
| **Nitrate (as N)** | 14797-55-8 | <0.020 | 0.020 | mg/L | E235.NO3/EO | 01-Nov-2025 | 01-Nov-2025 | 2313215 |
| **Nitrate + Nitrite (as N)** | ---- | <0.022 | 0.022 | mg/L | EC235.N+N/EO | - | 04-Nov-2025 | - |
| **Nitrite (as N)** | 14797-65-0 | <0.010 | 0.010 | mg/L | E235.NO2/EO | 01-Nov-2025 | 01-Nov-2025 | 2313216 |
| **Sulfate (as SO4)** | 14808-79-8 | 2.84 | 0.30 | mg/L | E235.SO4/EO | 01-Nov-2025 | 01-Nov-2025 | 2313218 |
| **Total Sulfides** | | | | | | | | |
| **Sulfide, total (as S)** | 18496-25-8 | <0.0015 | 0.0015 | mg/L | E395/CG | - | 03-Nov-2025 | 2314718 |
| **Sulfide, total (as H2S)** | 7783-06-4 | <0.0016 | 0.0016 | mg/L | E395/CG | - | 03-Nov-2025 | 2314718 |
| **Metals** | | | | | | | | |
| **Sodium adsorption ratio [SAR]** | ---- | 0.23 | 0.10 | - | EC102A/EO | - | 03-Nov-2025 | - |
| **Ion Balance** | | | | | | | | |
| **Ion balance (cations/anions)** | ---- | 104 | 0.010 | % | EC101/EO | - | 03-Nov-2025 | - |
| **Total Metals** | | | | | | | | |
| **Aluminum, total** | 7429-90-5 | 1.15 | 0.0030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Antimony, total** | 7440-36-0 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Arsenic, total** | 7440-38-2 | 0.00140 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Barium, total** | 7440-39-3 | 0.0357 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Beryllium, total** | 7440-41-7 | 0.000089 | 0.000020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Bismuth, total** | 7440-69-9 | <0.000050 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Boron, total** | 7440-42-8 | 0.017 | 0.010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cadmium, total** | 7440-43-9 | 0.0000424 | 0.0000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Calcium, total** | 7440-70-2 | 8.77 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cesium, total** | 7440-46-2 | 0.000385 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Chromium, total** | 7440-47-3 | 0.00199 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Cobalt, total** | 7440-48-4 | 0.00097 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Copper, total** | 7440-50-8 | 0.00389 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Iron, total** | 7439-89-6 | 2.61 | 0.010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Lead, total** | 7439-92-1 | 0.00181 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Lithium, total** | 7439-93-2 | 0.0046 | 0.0010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Magnesium, total** | 7439-95-4 | 2.87 | 0.0050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Manganese, total** | 7439-96-5 | 0.0632 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Molybdenum, total** | 7439-98-7 | 0.000250 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Nickel, total** | 7440-02-0 | 0.00307 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Phosphorus, total** | 7723-14-0 | 0.095 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Potassium, total** | 7440-09-7 | 1.17 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Rubidium, total** | 7440-17-7 | 0.00440 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Selenium, total** | 7782-49-2 | 0.000092 | 0.000050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Silicon, total** | 7440-21-3 | 4.30 | 0.10 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |

## Analytical Results

FC2503153-003

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

*Client sample ID:* Raw Water - Intake
*Client sampling date / time:* 31-Oct-2025 14:00

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Total Metals** | | | | | | | | |
| **Silver, total** | 7440-22-4 | 0.000020 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Sodium, total** | 7440-23-5 | 3.00 | 0.050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Strontium, total** | 7440-24-6 | 0.0629 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Sulfur, total** | 7704-34-9 | 1.35 | 0.50 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tellurium, total** | 13494-80-9 | <0.00020 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Thallium, total** | 7440-28-0 | 0.000036 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Thorium, total** | 7440-29-1 | 0.00025 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tin, total** | 7440-31-5 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Titanium, total** | 7440-32-6 | 0.0263 | 0.00030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Tungsten, total** | 7440-33-7 | <0.00010 | 0.00010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Uranium, total** | 7440-61-1 | 0.000170 | 0.000010 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Vanadium, total** | 7440-62-2 | 0.00393 | 0.00050 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Zinc, total** | 7440-66-6 | 0.0213 | 0.0030 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Zirconium, total** | 7440-67-7 | 0.00047 | 0.00020 | mg/L | E420/EO | 01-Nov-2025 | 01-Nov-2025 | 2313006 |
| **Dissolved Metals** | | | | | | | | |
| **Aluminum, dissolved** | 7429-90-5 | 0.0074 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Antimony, dissolved** | 7440-36-0 | 0.00014 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Arsenic, dissolved** | 7440-38-2 | 0.00019 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Barium, dissolved** | 7440-39-3 | 0.0154 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Beryllium, dissolved** | 7440-41-7 | <0.000020 | 0.000020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Bismuth, dissolved** | 7440-69-9 | <0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Boron, dissolved** | 7440-42-8 | 0.014 | 0.010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cadmium, dissolved** | 7440-43-9 | <0.0000050 | 0.0000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Calcium, dissolved** | 7440-70-2 | 7.93 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cesium, dissolved** | 7440-46-2 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Chromium, dissolved** | 7440-47-3 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Cobalt, dissolved** | 7440-48-4 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Copper, dissolved** | 7440-50-8 | 0.00127 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Iron, dissolved** | 7439-89-6 | <0.010 | 0.010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Lead, dissolved** | 7439-92-1 | <0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Lithium, dissolved** | 7439-93-2 | 0.0028 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Magnesium, dissolved** | 7439-95-4 | 2.49 | 0.0050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Manganese, dissolved** | 7439-96-5 | 0.00162 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Molybdenum, dissolved** | 7439-98-7 | 0.000219 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Nickel, dissolved** | 7440-02-0 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Phosphorus, dissolved** | 7723-14-0 | <0.050 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Potassium, dissolved** | 7440-09-7 | 0.826 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Rubidium, dissolved** | 7440-17-7 | 0.00083 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Selenium, dissolved** | 7782-49-2 | 0.000050 | 0.000050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Silicon, dissolved** | 7440-21-3 | 1.99 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Silver, dissolved** | 7440-22-4 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Sodium, dissolved** | 7440-23-5 | 2.92 | 0.050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Strontium, dissolved** | 7440-24-6 | 0.0571 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Sulfur, dissolved** | 7704-34-9 | 1.36 | 0.50 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tellurium, dissolved** | 13494-80-9 | <0.00020 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |

## Analytical Results

FC2503153-003

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

*Client sample ID:* Raw Water - Intake
*Client sampling date / time:* 31-Oct-2025 14:00

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Dissolved Metals** | | | | | | | | |
| **Thallium, dissolved** | 7440-28-0 | <0.000010 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Thorium, dissolved** | 7440-29-1 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tin, dissolved** | 7440-31-5 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Titanium, dissolved** | 7440-32-6 | 0.00035 | 0.00030 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Tungsten, dissolved** | 7440-33-7 | <0.00010 | 0.00010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Uranium, dissolved** | 7440-61-1 | 0.000025 | 0.000010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Vanadium, dissolved** | 7440-62-2 | <0.00050 | 0.00050 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Zinc, dissolved** | 7440-66-6 | 0.0089 | 0.0010 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Zirconium, dissolved** | 7440-67-7 | <0.00020 | 0.00020 | mg/L | E421/EO | 01-Nov-2025 | 01-Nov-2025 | 2313191 |
| **Dissolved metals filtration location** | ---- | Field | - | - | EP421/EO | - | 01-Nov-2025 | 2313191 |
| **Aggregate Organics** | | | | | | | | |
| **Naphthenic acids** | ---- | <1.0 | 1.0 | mg/L | E565/EO | 03-Nov-2025 | 04-Nov-2025 | 2315094 |
| **Volatile Organic Compounds [Fuels]** | | | | | | | | |
| **Benzene** | 71-43-2 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Ethylbenzene** | 100-41-4 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Methyl-tert-butyl ether [MTBE]** | 1634-04-4 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Styrene** | 100-42-5 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Toluene** | 108-88-3 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylene, m+p-** | 179601-23-1 | <0.40 | 0.40 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylene, o-** | 95-47-6 | <0.30 | 0.30 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Xylenes, total** | 1330-20-7 | <0.50 | 0.50 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **BTEX, total** | ---- | <1.0 | 1.0 | µg/L | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Hydrocarbons** | | | | | | | | |
| **F1 (C6-C10)** | ---- | <100 | 100 | µg/L | E581.F1/EO | 02-Nov-2025 | 02-Nov-2025 | 2313039 |
| **F1-BTEX** | ---- | <100 | 100 | µg/L | EC580/EO | - | 02-Nov-2025 | - |
| **F2 (C10-C16)** | ---- | <100 | 100 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **F3 (C16-C34)** | ---- | <250 | 250 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **F4 (C34-C50)** | ---- | <250 | 250 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Hydrocarbons, total (C6-C50)** | n/a | <380 | 380 | µg/L | EC581/EO | - | 02-Nov-2025 | - |
| **TEH (C10-C50)** | n/a | <400 | 400 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **TEH (C16-C50)** | ---- | <400 | 400 | µg/L | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Hydrocarbons Surrogates** | | | | | | | | |
| **Bromobenzotrifluoride, 2- (F2-F4 surrogate)** | 392-83-6 | 119 | 1.0 | % | E601/EO | 03-Nov-2025 | 03-Nov-2025 | 2315158 |
| **Dichlorotoluene, 3,4-** | 95-75-0 | 97.0 | 1.0 | % | E581.F1/EO | 02-Nov-2025 | 02-Nov-2025 | 2313039 |
| **Volatile Organic Compounds Surrogates** | | | | | | | | |
| **Bromofluorobenzene, 4-** | 460-00-4 | 116 | 1.0 | % | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Difluorobenzene, 1,4-** | 540-36-3 | 105 | 1.0 | % | E611A/EO | 02-Nov-2025 | 02-Nov-2025 | 2313038 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | |
| **Acenaphthene** | 83-32-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Acenaphthylene** | 208-96-8 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Acridine** | 260-94-6 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Anthracene** | 120-12-7 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benz(a)anthracene** | 56-55-3 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(a)pyrene** | 50-32-8 | <0.0050 | 0.0050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(b+j)fluoranthene** | n/a | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |

## Analytical Results

FC2503153-003

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

*Client sample ID:* Raw Water - Intake
*Client sampling date / time:* 31-Oct-2025 14:00

| Analyte | CAS Number | Result | LOR | Unit | Method/Lab | Prep Date | Analysis Date | QCLot |
|---|---|---|---|---|---|---|---|---|
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | | |
| **Benzo(b+j+k)fluoranthene** | n/a | <0.015 | 0.015 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(e)pyrene** | 192-97-2 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(g,h,i)perylene** | 191-24-2 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Benzo(k)fluoranthene** | 207-08-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Chrysene** | 218-01-9 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Dibenz(a,h)anthracene** | 53-70-3 | <0.0050 | 0.0050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Fluoranthene** | 206-44-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Fluorene** | 86-73-7 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Indeno(1,2,3-c,d)pyrene** | 193-39-5 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 1-** | 90-12-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 1+2-** | ---- | <0.015 | 0.015 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Methylnaphthalene, 2-** | 91-57-6 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Naphthalene** | 91-20-3 | <0.050 | 0.050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Perylene** | 198-55-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Phenanthrene** | 85-01-8 | <0.020 | 0.020 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Pyrene** | 129-00-0 | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Quinoline** | 91-22-5 | <0.050 | 0.050 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **B(a)P total potency equivalents [B(a)P TPE]** | ---- | <0.010 | 0.010 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, high molecular weight (BC AWQ)** | n/a | <0.030 | 0.03 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, low molecular weight (BC AWQ)** | n/a | <0.060 | 0.06 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (CCME sewer 18)** | n/a | <0.070 | 0.07 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (EPA 16)** | n/a | <0.065 | 0.065 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **PAHs, total (P2MMP)** | n/a | <0.040 | 0.04 | µg/L | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Polycyclic Aromatic Hydrocarbons Surrogates** | | | | | | | | |
| **Chrysene-d12** | 1719-03-5 | 132 SHMI, | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Naphthalene-d8** | 1146-65-2 | 121 | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **Phenanthrene-d10** | 1517-22-2 | 137 SHMI, | 0.1 | % | E641A/EO | 03-Nov-2025 | 03-Nov-2025 | 2315159 |
| **DIsinfectant By-Products** | | | | | | | | |
| **Chlorate** | 14866-68-3 | <0.010 | 0.010 | mg/L | E409.CLO3/WT | 04-Nov-2025 | 04-Nov-2025 | 2316705 |

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